

FOR OFFICIAL USE



MINISTRY OF LABOUR

A DICTIONARY OF OCCUPATIONAL TERMS

Based on the Classification of Occupations
used in the Census of Population, 1921.

LONDON :

PRINTED AND PUBLISHED BY HIS MAJESTY'S STATIONERY OFFICE

To be purchased directly from H.M. STATIONERY OFFICE at the following addresses:

Adastral House, Kingsway, London, W.C.2; 120, George Street, Edinburgh;

York Street, Manchester; 1, St. Andrew's Crescent, Cardiff;

15, Donegall Square West, Belfast;

or through any Bookseller.

1927.

Price £1 1s. 6d. net.

PREFATORY NOTE.

The Dictionary of Occupational Terms had its origin in one of the Resolutions adopted by the British Empire Statistical Conference, which met in London from 20th January to 26th February, 1920.* The relevant part of the Resolution is as follows:—"That a complete descriptive glossary of occupations, with an alphabetical index in addition, should be prepared as soon as opportunity permits." This Resolution was considered in the same year by an Inter-Departmental Committee which had been set up to make preparations for the forthcoming Census of Population. The Committee recorded their opinion "that the preparation and use of any classification would be greatly simplified if a descriptive glossary, describing occupations in detail, could be prepared." Account was taken of the fact that the need for such a Dictionary had been experienced in other connections, particularly during the Great War, and after due consideration, authority was issued for the compilation of the Dictionary by the Ministry of Labour.

The Dictionary has thus been compiled primarily to serve administrative purposes. It is thought, however, that the information, thus collected, may be useful for other than official purposes, and it has therefore been decided to place the Dictionary on sale.

In the compilation of the Dictionary, the Ministry of Labour has worked in close collaboration with the General Register Office, the Home Office, the Mines Department, the Ministry of Agriculture and Fisheries, the Post Office, and other Government Departments, and has received much valuable help from those Departments. Information has also been obtained from Joint Industrial Councils and Trade Boards, from Railway Companies and the Railway Staff Conference and from a large number of individual employers and trade unions. To all those who have thus helped the Ministry in their task, often at considerable sacrifice of time and convenience, most grateful acknowledgment is hereby given.

The plan adopted has been to take the Classification of Occupations issued in connection with the Census(†), and to append a concise definition to each of the occupations named therein. Many additional terms which came to light during the compilation, have been included in the present volume. The total number of terms appearing in the volume is 29,106, but since many of these are synonyms, the number of occupations defined is appreciably less, and amounts in all to 16,837. No occupations of persons engaged in public administration and defence or professional occupations (Census Code Nos. 800-879 inclusive) have been included.

The definitions have been compiled in the light of the best information obtainable, and much care has been taken to achieve accuracy. It should however be understood that they have no claim to be regarded as "standard" or "authoritative" definitions carrying legal or official sanctions.

Many industries are passing through a period of transition, so that the same occupational term may still be applied, for example, to handicraft workers, carrying through an entire series of manual operations, and to factory hands tending a machine and working under conditions of high specialisation. In such cases, of course, a single rigid and clear-cut definition is impossible. Even where this is not the case, and a whole industry is, broadly speaking, working under uniform conditions of equipment and organisation (as, for example, in the cotton trade), there exist many variations of practice as between one factory and another. No definition, therefore, could be framed which would absolutely and precisely fit every possible case, unless the definition were expanded and subjected to qualifications and exceptions to an impossible extent. Hence, all that is usually attempted, is to give, in non-technical language, and in broad outline, a description of the work generally performed by the person to whom the name is applied; in a number of cases, however, alternative definitions are given which take account of such variations in practice as are known to exist. Subject to these inevitable limits, the definitions have been made as clear, full and self-explanatory as possible.

There is one further point of some importance. The classification of workers into specified "skilled," "other skilled," and "other workers" is strictly in accordance with the Census Classification.(‡) Such a classification is

* The Report of this Conference, and the text of the Resolutions adopted thereat, have been published (Cmd. 648, H.M. Stationery Office; price 6d. net).

† Census, 1921, Classification of Occupations, H.M. Stationery Office: price 7s. 6d. net.

necessarily influenced by historical, statistical and other considerations arising out of the use to which the classification is to be put; its adoption in the present volume is based simply on convenience and is not to be regarded as in any sense constituting an official pronouncement as to the degree of skill required for any particular occupation, whether classified as skilled or not.

It only remains to add that the Ministry will welcome any corrections and additions that employers, trade unions and others may be good enough to suggest. It is recognised that in a pioneer attempt of this kind many of the definitions are inevitably unsatisfactory and the co-operation of the public in improving the Dictionary will, therefore, be much appreciated. Communications on this point should be addressed to the Director of Statistics, Ministry of Labour, Queen Anne's Chambers, Broadway, London, S.W.1.

KEY TO ARRANGEMENT AND ABBREVIATIONS.

(1) In accordance with the Census, 1921, classification, the occupational terms will be found grouped in Orders and Sub-Orders under code numbers from 000 to 959. Orders XXIV and XXV, Persons Employed in Public Administration and Defence and Professional Occupations (code numbers 800 to 879), have been omitted. The occupational arrangement is such that similar and related occupations are grouped together on the basis of the material worked in, the process performed or the service rendered. Within each Order the code numbers follow the sequence of operations in the actual processes of manufacture, etc. Hence in a large number of cases the occupational arrangement approximates to an industrial classification. For example, Order XII (code numbers 350 to 399) covers the whole of the workers in the textile industry (with the exception of the maintenance staff, clerks, transport workers, warehousemen and packers) in the natural order of the various processes.

(2) For anyone unfamiliar with the Census classification the easiest way to find a required definition is to consult the alphabetical Index at the end of the volume, where the code number under which the term appears will be found. Under each code number the occupations are listed alphabetically.

(3) Occupational terms more or less synonyms have been linked together in one common definition. The most usual or most important term in such a group is placed first in heavy or Clarendon type, while the less important synonyms and local variants are printed in italics.

(4) Particular designations of an occupational term will be found appended to the definition of the principal occupation in cases where the duties involved do not warrant separate definitions.

(5) When a term is localised in its usage, or when the duties to be defined differ by locality, the name or names of the localities are indicated in italics.

(6) The distinction between the use of the terms "*see . . .*" and "*as for . . .*" may be explained by an illustration.

The entry "*fitter, loom, see loom builder*" denotes that "*loom fitter*" is a synonym of "*loom builder*" of less common occurrence and that the definition will be found against "*loom builder*." On the other hand "*steam cultivator attendant, as for steam plough attendant*" indicates that, while the two terms are not synonymous, the duties involved are similar *mutatis mutandis*.

(7) In order to avoid unnecessary repetition in the definitions, and also as a means of linking one related occupation with another, a definition will often read as follows:—"*riffler, rifflermaker*; a file forger *q.v.* who makes special concave forgings for files, called rifflers." Here the abbreviation *q.v.* (which see) refers the reader to the definition of "*file forger*" for the complete definition of "*riffler*."

When it is important to distinguish between two occupations often denoted by the same occupational term, or when one definition is an interesting commentary on the other, the abbreviation, *cf.* (compare) is used instead of *q.v.*

(8) When a term is defined in two or more ways, either because of differences in processes or because there are two or more operations to be performed each as a full-time occupation, the separate definitions are enumerated in one general definition thus:—(i), (ii), (iii)

(9) As a result of the enquiries which have gone to the defining of the occupational terms in this Dictionary it has been discovered that a number of the terms appearing in the 1921 Census Classification of Occupations, would have been more appropriately classified under other code numbers. A number of the alterations thus discovered to be desirable have been incorporated in the classification of Occupations published by the Census Authorities in 1924; other proposed alterations which have emerged since that date and which could not be embodied in that volume are set out in an appendix to this volume. Adjustments will probably be made at the next Census in the occupational grouping of workers covered by such terms, which are indicated in the Dictionary thus: (†).

MINISTRY OF LABOUR.

July, 1927.

ORDER I.—FISHERMEN.

Sub-Order I.—Fishermen.

000.—FISHERMEN.

apprentice; made *apprentice* of skipper, mate and third hand, receives instruction in all duties on board fishing vessel, with view to qualifying as skipper or mate at expiration of apprenticeship; assists in handling gear, cooks for men, *ko*; *as far* boy.

bender; *see line fishermen*; sets small shore traps with ordinary pin or black-thorn hooks on snags for flat fish.

butler; *see fisherman, cook*.

boy, *catch* boy; *fish* boy; acts as cook in trawlers and drifters, and makes himself generally useful; calls *warp*, *mends* nets, attends to lights, assists deck hand (*v.*) in handling gear, *rowing* *men*, *ko*; is sometimes an apprentice (*v.*).

explain; *see* *skipper*.

cut-off, *cut-off*; *snice* and *hank* on short rope lengths (*snice*) attached to net when nets are being hauled in; *snice* then into net after hauling; *cut-off* of *snice* when nets are being shot.

cookie gatherer, *cookie*; gathers cookies from landbanks, *sinking* *ko*, or *jumbo*, to bring them to surface; *or*, picks them from sand and rocks, by hand.

crabber; *see fisherman, crab*.

deck hand, *deckie*; *fish* *boat* *hand*, *nerver* (*fisherman*) *arrows*; (*if*) (*larger vessels*), *sole* *men* (*drifters*); assists in handling of ship, gear, or fish, as directed by skipper, mate, or third hand (*v.*); assists in shooting and pulling-in gear and in particular, acts as *snice* (*v.*).

(*if*) (*smaller vessels*), *see* third hand.

drifter hand, *see fisherman, drifter*.

eel catcher, *see fisherman, eel*.

fisher boy, *see boy or apprentice*.

fisherman, *cod*; *butler*, *long liner*; fishes for cod and other big fish with long lines, from any type of vessel; *or*, catches from trawlers, using trawl net.

fisherman, crab; *crabber*; catches crabs and usually also lobsters, crayfish, *ko*, in baited crab, *ko*, *po*; strikes pots, with weight attached, on submerged rocks, *ko*, near to shore, cork buoy attached marking spot; periodically visits by boat, removes catch, re-baits pots with fish offal, *ko*, and keeps catch alive; *cf.* fisherman, lobster; wellman.

fisherman, deep sea; works in deep sea fishing smacks or steam trawlers of a larger type than those used for inshore fishing; usually at sea several days or weeks; assists in management of net and in handling nets, *fish*, *ko*; in general term overboard skipper, second hand, third hand, and/or deck hand, and boy (*v.*).

fisherman, drifter; drift net fisherman; drifter hand; general terms for men employed in fishing operations in drift net, *i.e.*, boats using nets which drift with the tide and wherein fish are caught by their gills in meshes.

fisherman, eel; *eel catcher*; catches eels with net or baited baskets; *or* by spearing, using spear (grape) fastened to line; in turn attached to a pole; *or* by bobbing and waiting, *i.e.* line fishing using instead of hooks, worms threaded on wadded and wound into ball; *or* by hook and line fishing, hook being gagged, *i.e.* tied with a winding of wire over knot, to mortals to prevent eel biting from line.

fisherman, haaf net; fishes for salmon or for sea trout in estuaries with special nets called haaf or haave nets, a double net strung over his shoulders and supported by his outstretched arms; wades out sometimes breast high.

fisherman, herring; catches herrings in sound or, more usually, in snail drift net, *fisherman, drifter*.

fisherman, inshore (longshore); usually fishes within a few miles of harbor in small vessel (sometimes petrol-driven); uses crab pots, lines, drift nets, trawls, net nets, prawn nets, *ko*; returns home each day; *cf.* deep sea fisherman.

fisherman, kittle net (*South Coast*); catches *arrows* or *trout* in trap fish, usually mackerel, in kittle, kiddle or kiddle net; erects nets at beginning of season; (staked net), drives poles in sea bed and arranges wall of net on them to make a passage leading into circular enclosure (*trik*) similarly erected, placed at low water

mark; (floating net) pegs bottom of net to soil and attaches net to set headline; collects fish thus trapped at low tide; *fisherman, lobster*; catches lobsters and usually also crabs, crayfish, *ko*, in baited lobster, *ko*, pots or in hoop nets, *ko*, for fisherman, crab.

fisherman, North Sea; a deep sea fisherman (*v.*) fishing in North Sea; *fisherman, oyster*; *oyster gatherer*; (*if*) *see* oyster dredger; (*if*) handpicks oysters at low water (especially during spring tides).

fisherman, prawn; *skasher*; gets prawns with hand net among rocks at low water or with prawn nets or trawl nets from boats.

fisherman, river; general term for any person fishing in river from bank, by wading, or in boats for minnows, cockles, founders, shrimps, salmon, trout and freshwater fish.

fisherman, salmon; fishes for salmon with nets or lines or by spearing.

fisherman, seine; catches shoal fish, *i.e.*, mackerel, herring, pilchard, sprat, using seine net; (*if*) fishes from the shore using seine net which is paid out from a boat a suitable distance from the shore and pulled in by ropes; (*if*) fishes between two boats, when seine net is paid out in circular fashion, both ends being hauled in together after enclosing a circular space of water, precise method adopted varying with strength of current; assists in paying-out and gathering net and in clearing it of fish.

fisherman, smelt; *smelt catcher*; catches smelt in seine nets or cast nets in or near estuaries.

fisherman, sprat; catches sprats in slow nets or in drift nets from fishing boats; *cf.* fisherman, drifter, or in seine nets, *cf.* fisherman, seine, or (more rarely) with spear trawls from smacks.

fisherman, top line, *see* *lander*.

fisherman, whammoth, *see* *whammoth*.

fisherman, whitetail; catches whitetail in slow nets or seine nets.

fishing boat hand, *see* deck hand; *see* also second hand and third hand.

hawseman (larger vessels), *see* third hand, long liner, *see* fisherman, cod.

mariner (fisherman), *see* deck hand.

master, *see* skipper.

mate; is second in command on drifters, trawlers, and, responsible for "sailings", *i.e.*, rope connecting net with warp; when boat is engaged in line fishing is responsible for storage and stowing of fish; *see* second hand.

manse (cultivist); transplants minnows from crowded areas to more favourable to their growth.

minnow gatherer, *minnow*, *minnow* layman; gathers minnows either by dredge or rake (in deep water); *or* by rake or by hand (between tide marks); sometimes also "lays" minnows, *i.e.*, places ordered-sized minnows on mussel bags to grow.

net ropeman (drifters); ropeman; hauls in rope attached to drift net; part of duties of deck hand (*v.*).

net stower; stows nets in net room, first laying flat and then folding them into convenient sized bungs in regular order for stowage, assisted by boy (*v.*); normally part of duties of deck hand (*v.*), but may be done by any member of crew, *cf.* third hand, second hand.

owner (of fishing boats), drifter owner, trawler owner; owns fishing boats and receives fixed proportion of takings; sometimes acts as skipper or superintendent of produce; owns crew, *e.g.*, mate, third hand, deck hand, boy (skipper if necessary) (*v.*) to run vessels; occasionally agrees to take apprenticeship (*v.*).

oyster culturist; cultivates oysters by laying them in suitable localities, clearing ground, providing (e.g., broken oyster shells, rock, *ko*) to which oyster (*v.*) naturally part of duties of deck hand (*v.*), but may be done by any member of crew, *cf.* third hand, second hand.

owner (of fishing boats), drifter owner, trawler owner; owns fishing boats and receives fixed proportion of takings; sometimes acts as skipper or superintendent of produce; owns crew, *e.g.*, mate, third hand, deck hand, boy (skipper if necessary) (*v.*) to run vessels; occasionally agrees to take apprenticeship (*v.*).

oyster dredger; *oyster fisherman*; goes out in boat (rowing, sailing or motor) and dredges up oysters from water from three feet to twenty fathoms in depth; replaces oysters below size to mature; removes from net for use large oysters; also removes star-fish, whelks, *ko*, *cf.* oyster culturist.

oyster gatherer, *see fisherman, oyster*.

gutter; *North West Coast*; a shrimper (*v.*) who catches shrimps with push net in shallow water.

ropeman, *see* net ropeman.

seaman, *see* deck hand.

second hand; *mate*; assists skipper in navigating fishing vessel in and out of harbor; is responsible for upkeep of gear and stores, and for stowing, icing and landing of fish; *see* mate (term second hand is more usual on sailing boats; *mate*, on steam trawlers).

shanker; *North-West Coast of England*; *see* fisherman, prawn.

shrimper, *shrimp catcher*; uses shrimp trawl from boat (rowing, sailing or motor) or pulled by horse and cart; *or* uses push net in shallow water, or fixed net.

skipper; *captain, master*; navigates vessel in and out of harbour, selects fishing grounds, shoots gear, directs handling operations, and is generally responsible to owner.

smackman; general term for man or boy employed on "smack", *i.e.*, large fishing trawler.

smelt catcher, *see fisherman, smelt*.

spear hand (trawler); is an additional hand carried to help in dealing with large catches on long voyages; also assists as fireman.

third hand; (*if*) (*larger vessels*) *seaman*; acts as leading deck hand under skipper and mate (*v.*); is responsible for heaves (winches) and for shooting and pulling in fishing gear, assisted by deck hand (*v.*); acts as watchman; (*if*) (*smaller vessels*) deck hand; gives general assistance on deck and in shooting, pulling in nets, stowing and mending nets, *ko*, as directed by second hand (*v.*) on vessels not carrying deck hand or fireman from third hand.

trawler; general term for man or boy employed on trawler.

trotter; *Wash district* (a shrimper) (*v.*) who catches shrimps with trawl dropped from boat or pulled by horse and cart.

wale man (drifters), *see* deck hand.

wellman; is employed on fishing vessel continuously in which fish are kept alive; replenishes water in well and, when return to shore is delayed, *cf.* North Sea fishing, feeds fish with fish offal; *cf.* deck hand; fisherman, crab.

whammoth; *Whammoth fisherman*; fishes for salmon or for sea trout in estuaries, with special drift net which catches fish by gills; net is shot and hauled in from open boat.

whaler; lays and collects whelk pots in suitable rough ground; *or* (at certain ports) lays off-shore lines having snails or mussels in net which is attached; *or* pegs down on shore similar lines (shore-trails) or dredges as for oyster dredger.

winkle gatherer, *winkle picker*; gathers periwinkles left on sand or rocks when tide has gone out.

youngster; term used, particularly at Great Yarmouth, for boy (*v.*) or for young man between the stages of boy and of deck hand (*v.*).

ORDER II.—AGRICULTURAL OCCUPATIONS.

Sub-Order I.—Agricultural Occupations.

000.—LAND AND ESTATE AGENTS, AND MANAGERS (not Auctioneers and Estate Agents).

agricultural agent, *see* estate bailiff, estate bailiff, estate steward; *agricultural agent, estate factor* (*Scotland*), *land bailiff or steward*; acts as representative of estate owner in letting farms and in dealing with tenants' complaints or requests; arranges for repairs and general upkeep of property; is responsible for the collection of rents; controls office where all accounts of estate are dealt with; pays or is responsible for the payment of all expenses incurred by the estate, and is responsible for the satisfactory working of home farms worked directly by a farm bailiff (*015*) (*v.*).

estate bailiff (*Scotland*), *land bailiff*, *land steward*, *see* estate bailiff.

011.—FARMERS.

agriculturist, *general term for any person engaged in, or skilled in, agriculture, either in theory or practice; term seldom applied to manual workers.*

bowyer, *Scottish term; rents dairy stock of farms, with pasture and fodder, paying rent out of its produce; or gives labour as his share and divides profits with proprietor of stock.*

breeder, *horse, or farmer, stud.*

brooder, *phasant, or farmer, game.*

brooder, *pig; a hired man puts pigs on a farm or small holding; usually works himself and directs one or more labourers in grinding cereals, pulping roots and otherwise preparing foodstuffs, cleaning pig sties, putting pigs out to grass, leading sows in farrow; attends market for buying or selling of foodstuffs and stock; may cultivate on farm roots and cereals for foodstuffs.*

cheese-maker, *a dairy farmer (q.v.) who keeps cows for the production of cheese; supervises cheese-makers in dairy (022).*

cottager (*own account*); *a skilled independent agricultural worker, who takes work by contract.*

crofter, *Scottish Highlands and Islands; "tenant of a holding, being whole or pasture land, from year to year, who resides on his holding, the annual rent of which does not exceed £30 in money, and which is situated in a crofting parish" (rds Crofters' Holding Act); in many coastal districts and on some islands is partly dependent upon fishing.*

farmer, *cultivates cereal and other crops and/or raises animals or birds for food on a tract of land, owned or leased for the purpose; usually, according to climate, produces annual crops of wheat, oats and other cereals, turnips, leek and other roots, clover, grasses and other green cattle foods, hard and soft fruits; also raises herds of cattle, flocks of sheep, etc., on grazing land, and breeds and maintains horses for work on the farm; breeds poultry of various kinds for eggs and table birds; directs workmen engaged on various farming operations e.g. ploughing, harrowing, sowing, planting, manuring, hoeing, weeding, reaping, sorting, stacking, threshing, lifting and storing of root crops, preparing and marketing of fruit trees, feeding and care of cattle, sheep, poultry; attends at various markets for purchase or sale of produce, animals, seed and equipment; frequently assisted by farm bailiff or foreman (015) (q.v.); often specialises in certain branches according to branch of agriculture, e.g. cattle farmer, chicken farmer, dairy farmer, fruit farmer, poultry farmer, sheep farmer, stock farmer, farmer, dairy (a farmer (q.v.) who keeps cows for production of milk for market; may also make butter and cheese).*

farmer, *game; pheasant breeder; breeds pheasants and other game birds for sporting purposes; sells eggs and young chicks to estate owners; is interested in improvement of strains and production of new types; shows birds at poultry exhibitions.*

farmer, *horse, or farmer, stud.*

farmer, *poultry; poultry breeder, poultry rearer; rears and keeps poultry, i.e. chickens, ducks, geese, turkeys, etc.; sells eggs and birds to dealers; may also kill birds before selling and pluck and dress the bodies.*

farmer, *stud; horse breeder, horse farmer; a farmer (q.v.) who breeds thoroughbreds or hackneys in conjunction with carrying on ordinary farm work; usually grows and stocks hay and oats for consumption on farm.*

grass-cutter, *puts cattle to grass on pasture land; but does not breed nor (as a rule) feeds them.*

hay grower, *a farmer (q.v.) who specialises in growing hays; directs work of top ground labourers (014) (q.v.) and superintends drying of hays in east house.*

little holder, *or small holder.*

potato grower, *a farmer (q.v.) who specialises in growing potatoes for market.*

poultry breeder, *poultry rearer, or farmer, poultry; sometimes specialises in breeding, e.g. duck breeder, turkey breeder.*

shepherd, *or stock breeder.*

seed grower, *cultivates plants, cereals, etc., on a farm; collects seed and sells to seed dealers; ploughs burrows, rolls, drills and hoes; e.g. seed grower (013).*

small holder, *little holder; a farmer (q.v.) who farms a holding or small piece of land not exceeding an annual rental value of £50, and usually not exceeding fifty acres in extent.*

statesman, *holder; Cumberland and part of Northumberland, see yeoman; abundant.*

stock breeder, *stock raiser; rearer; a cattle farmer (q.v.) engaged wholly or mainly in raising cattle.*

strawberry grower, *a farmer (q.v.) who grows strawberries for market; propagates plants by layering runners; lays straw cuttings over plants before fruiting to protect berries.*

takeholder, *a grazer (q.v.) who takes cattle or sheep in agreement, i.e. receives cattle and sheep for grazing in return for fee.*

teazle grower, *a small farmer (q.v.) who cultivates teasels, the prickly flower heads of which are used to raise nap on cloth; sown seeds in spring, transplanting seedlings when large enough; when flower heads of two-year old mature plants are ready, cut off the stalks bearing teasels to a length of 9 inches; use them roughly into bundles, i.e. rough plumbags, and pack them on poles to dry in the fields or open sheds, until seeds fall readily from heads; supervises drying of teasels by teazle maker-up (010) (q.v.).*

yeoman, *holder, statesman (Cumberland and part of Northumberland); a farmer (q.v.) who owns and cultivates small farm.*

013.—GARDENERS, NURSERYMEN, SEEDSMEN, FLORISTS.

allotment holder, *cultivates allotment, usually rented from local authority, and sells produce; as for market garden; usually spare time, and rarely prepared to grow crops.*

asparagus grower, *a market gardener (q.v.) who specialises in growing asparagus for market.*

bowling green layer, *constructs, levels, drains and lays out bowling greens with spirit level, usually received from Cumberland.*

bulb farmer, bulb grower, *cultivates bulbous plants, e.g. tulips, daffodils, lilies, and increases the number of bulbs by means of off-set bulbs and roots seed obtained from the flowers; sells all blooms and surplus bulbs.*

cropper, *a market gardener (q.v.) who specialises in intensive cultivation of plants out of season, e.g. beans, peas, generally under glass; frequently employs French system of garden cultivation, i.e. glass cloches or bells.*

firm hand (*fruit growing*); *does skilled work on fruit farm, including grafting, planting, pruning, spraying.*

flower dealer, flower dealer grower, *cultivates flowers in nursery gardens or flower farm in open ground or under glass; sends out blooms and flowering plants to market, or sells them direct to private customer; as for gardener; e.g. florist (770).*

flower grower, flower grower, or florist.

flower picker, *a casual worker who picks or cuts by hand, flowers from flower beds at nursery or flower farm; sometimes also carries the flowers to packing sheds and packs them into boxes ready for dispatch.*

flower tier, *(i) stakes plants and ties up flowers on flower farm; is frequently employed in both houses; (ii) ties up potted flowers in bunches (dozens or half-dozen) ready for packing and despatch to market.*

fruit grower (*under glass*); *grows fruit, e.g. apples, peaches, strawberries, grapes, in glass houses for market; usually combines fruit growing with cultivation of cucumbers, tomatoes, etc.*

garden architect, or gardener, landscape gardener, *general term for cultivator of flowers, fruit and vegetables; main duties consist in digging and manuring soil, planting seeds, bulbs and young plants, watering plants during dry season, weeding ground, tying up plants to make, removing dead plants, pruning and spraying from trees, picking fruit, etc., for the house, mowing lawns and attending to paths; frequently also has charge of glasshouses and frames; where work is sub-divided in sometimes specially designated, e.g. cemetery gardener, day gardener, domestic gardener (wholesale or resident at private house), jobbing gardener (paid by the day or job), kitchen gardener (q.v.) (growing*

vegetables and soft fruit), orchard gardener, exotist; a gardener (q.v.) who specialises in raising tropical and sub-tropical plants in hot house, or in favourable open air situations.

gardener, *landscaper; a gardener (q.v.) who specialises in laying out or attention of garden; drains, lays out according to design and plants gardens by contract, as gardener; builds pergolas, rockeries, ornamental ponds; lays down turf and constructs paths.*

gardeners' market, *a small farmer (011) (q.v.) who cultivates vegetables, flowers and fruit for market; determines rotation of crops with a view to planting against the markets; supervises loading of vans or lorries; attends at markets for sale of produce when neither salesman nor commission agent is employed.*

grafter, fruit grafter, *(i) grafts new stocks on worn-out trees by inserting shoots or scions; (ii) grafts cultivated tree cuttings on better stocks.*

grass layer, *or farmer; has care and general supervision of cultivation of fruit trees on farm; superintends digging, manuring, planting, grafting, pruning, picking, etc.*

herb grower, *a gardener (q.v.) who specialises in the cultivation for sale of herbaceous plants containing properties for medicinal or culinary purposes.*

horticulturist, *general term for any person engaged or skilled in horticulture, either in theory or practice.*

motor lawn mower driver, *drives motor used in mowing lawns, orchard grounds, etc.; sets, adjusts, and sharpens blades of cutters; adjusts or tunes engine and generally keeps machine clean and in good running order.*

mushroom grower, *a market gardener (q.v.) who specialises in growing mushrooms from spores for market; prepares mushroom beds in specially constructed dark covering sheds and (as a rule) in mushroom spore manufacturer; prepares and sells mushroom "bricks" for propagation; may also grow mushrooms.*

nurseryman, *a gardener (q.v.) who grows, either under glass or outside, flowers, shrubs, young trees, etc., for purpose of decoration or for stocking gardens.*

orchid grower, *a cactus gardener (q.v.) who specialises in growing orchids for sale.*

ornamental rock builder, ornamental rock worker, *builds rockeries or stone-work for rock gardens; under direction of landscape gardener (q.v.); plants rock plants.*

propagator, *a gardener (q.v.) employed in propagating house of nursery, raising plants from seeds and cuttings; keeps temperature of houses at most best in winter, and "growing" atmosphere, pruner; (i) a maker (q.v.) on a fruit farm who prunes trees with pruning knife and saw; (ii) in public parks, avenues, etc., one who does this any kind of tree with knife and saw.*

rhubarb rearer, *a rhubarb raiser (q.v.) who grows rhubarb for early market order in hot houses or outside protected by straw and wooden boxes or barrels.*

rhubarb raiser, *a market gardener (q.v.) who specialises in raising rhubarb for market.*

seed grower, *cultivates bush, standard or standard rose from cuttings or by grafting on briars, or grafter; manures ground, prunes, stakes and labels trees; contracts to buy out rose seedlings; dispatches rose trees or blooms to customers or market.*

seed grower, *cultivates seeds sent to him by the seedman, in bulk; allows plants to run to seed and extracts seeds by threshing; after further seeds have been produced, dispatches them to the seedman (770) (q.v.) for sale to the public.*

seed picker, *assists seed grower (q.v.) by using fork or picking plants after they have been allowed to run to seed and separates the seed from the plant by threshing; feeds plants into small power-driven threshing machine or lays plants on a cloth and beats them by hand with a stick; removes plants and rubbish by hand and finally passes seed through a sieve.*

squire keeper, *a gardener (q.v.) who keeps in order garden occupying centre of residential squares in towns; cuts grass, builds paths and keeps flower beds*

supplied with plants; usually also raises plants.
tomato grower; a market gardener (q.v.) who grows tomatoes for market, usually under glass.

014.—AGRICULTURAL AND FORESTRY PUPILS (not in Colleges).

farm pupil, farmer's apprentice; *improver*; a learner who receives instruction in all branches of practical farming carried on by farmer, including buying and selling of farm produce and equipment.
forestry student, forestry apprentice; a learner who is in course of training in the theory and practice of forestry by working under instruction of forester (016) (q.v.) on a private estate or at a forest school.
improver, *see* farm pupil.

015.—FARM BAILIFFS AND FOREMEN.

bailiff, farm bailiff, farm manager, farm steward; *groom*; a manager or head worker on farm or farms, who is mainly engaged in supervision and allocation of duties; superintends work of agricultural labourers, e.g. carters, cowmen; is often placed in charge of subsidiary farms under the direct supervision of the employer and manages farms in absence of farmer (011) (q.v.); may buy and sell produce and equipment in market on owner's behalf.
foreman; headman; (1) has charge of a number of labourers, under direction of farmer (011) or farm bailiff (q.v.); allocates duties and supervises work; usually a working foreman; (2) *East Riding of Yorkshire*; has charge of a farm, or part of a farm, where employee is resident.
groom master; supervisor or is master of gang of usual farm hands hired by farmer; keeps record of time worked or amount of work done, e.g. quantity of fruit or vegetables picked, by each worker.

grieve; *Scotland, Northumberland, Cumbria and Yorkshire*; *see* farm bailiff.
ground keeper; a farm bailiff or foreman (q.v.) residing on farm where farmer is non-resident.

hayward of the manor; looks after hedges and fences, prevents damage by cattle; impounds strays; supervises work of hedgers and ditchers (014) (q.v.) and sometimes of estate carpenter (014) (q.v.).
headman, *see* foreman.

health keeper; keeps clear all drainage ditches on husbandry with spade and rake; prevents unauthorized persons from stoking or pushing carts or vehicles; gives warning of and attempts to stop bath fire; prevents refuse being dumped on the land.

hind; a farm servant, often living in his employer's house; (1) (North of England) takes charge of pair of horses, which he works, feeds and looks after; (2) (*some parts of North*) milks the ploughman-steward (016) or headman (q.v.); (3) (*East Riding of Yorkshire*) man in charge of farm where employer is not resident; (4) a general utility man.

husbandman; (*Welsh term*); a farm worker experienced in all branches of farm work and able to plough, sow, reap, milk, land sheep and cattle, thresh, repair ditches, etc.; usually acts as headman or foreman (q.v.).
manager of stud farm; manages farm where pedigree horses are bred and reared; gives instructions and superintends work of stud groom (023) (q.v.); is responsible for expenditure and for work done on the farm; keeps records of stock; work usually done by head groom.

marsh bailiff; overlooks cattle daily at grass on marshes for farmer, who has leased the ground; protects sheep through marsh, makes periodical examination of fences, ditches, drains, etc., and reports any damage or necessary repairs.

016.—FORESTERS AND WOODMEN.

skoman, *see* timber feller.
coppice keeper; *as for* forester, having general care of coppice; fells woodlands at short intervals to prevent their becoming high forest.
forester; wood keeper, woodland caretaker; superintends forest workers (q.v.) and has

local charge of forestry operations, of standing timber and of young plantations; directs felling and hauling of trees, examining and lepping standing timber, raising seedlings and transplanting young trees, etc.; keeps records and arranges small sales.

foremost foreman; a sub-forester (*see* forester) in charge of a beat, i.e. part of a forest area.

forest ganger; has charge of gang of forest workers (q.v.); sometimes also takes part in the work.

forest guard; patrols and protects forest land against fire, trespass, etc., under supervision of forest ranger.

forest keeper, *see* forest ranger.

forest planter, *see* forest worker.

forest ranger; forest keeper, wood ranger; patrols woodlands as protection against fire, trespass, etc.; supervises under-keepers and forest guards (q.v.).

forest worker, forest workman; forest planter, tree planter, wood grower; prepares ground for planting by clearing and burning, draining, fencing, setting, ploughing; sets tree seed or transplants seedling trees from nursery ground into notches or pits; weeds, binds up, etc., replaces losses, protects from fire and damage by mammals, birds and insects; thins crops and later fells trees, *see* timber feller.

tenant of forest holding; a forest worker (q.v.) with holding of less extent than a small holding; works in forest during planting season and on holding during summer, during which period he acts as fire guard, the forest holdings being in or adjoining the forest area.

timber feller, timber faller, timber hewer; *ananas, tree feller, wood cutter, wood feller*; fells necessitous timber trees in forest or wood, by first felling a tree on one side, then the second to which the tree is to fall, then saws from opposite side (two workers) using a double-handled saw, and inserting wedges after the saw to ease it and guide the felling direction.

timberman (on estate), *as for* wood bailiff the commoner in the Royal Forest; unusual.
tree planter, *see* forest worker.

verdoner; is appointed under special statutes to protect the interests of the commoners in the Royal Forest; has judicial powers in connection with encroachment and trespass.

wood bailiff, wood steward, wood warden; *woodward, woodreeve, woodreeve*; a forester (q.v.) in charge of forestry operations on estate; *cf.* forest fawn.

wood cutter, wood feller, *see* timber feller.

wood grower, *see* forest worker.

wood keeper, woodland caretaker, *see* forester.

woodman; *as for* forest worker, employed in woodlands in protecting the crop, felling and clearing; may be a forest foreman (q.v.) wood ranger, *see* forest ranger.

woodreeve, woodreeve, woodward, *see* wood bailiff.

018.—DRAINAGE SUPERINTENDENT, FOREMAN, ETC.

drainage agent; plans schemes of drainage or is in charge of such schemes or underground channels, inspects the work being carried out by drainage labourers (026) (q.v.) or gives directions to drainage superintendant; usually a civil engineer or surveyor.

drainage assistant; assists drainage agent (q.v.) by surveying fields and drawing up plans of drainage schemes, or in superintending and inspecting the work done; duties usually performed by assistant engineer or surveyor.

drainage bailiff; drainage superintendent; *also* reeve, *also* and superintends work done by drainage labourers (026) (q.v.) and instructs them as to the working and laying out of the plots made out by drainage agent (q.v.) or engineer; supervises estate keepers (045) (q.v.).

dyke reeve, *see* drainage bailiff.

020.—SHEPHERDS.

looker (in charge of sheep), marsh looker; a smallholder on Romney Marsh who receives sheep sent down to graze in summer by upland farmers or graziers.

riddleman; a shepherd (q.v.) who marks sheep to distinguish flocks or ownership by heaving a small stone, or dipping it in red ochre and placing it on the sheep's back.

sheep dipper; prepares bath, for prevention of disease among sheep and for exterminating parasites, by dissolving chemicals in water; dips sheep in bath and sees that they are properly immersed before they are allowed to emerge from bath.

sheep cheater, sheep clipper; a farm worker who specializes in removing wool from the sheep by clipping with hand-shears or mechanically-operated clippers, usually in spring or late summer.

shepherd; a farm worker in charge of flock of sheep; selects suitable grazing land and, with assistance of boy and dog, keeps sheep within bounds; where necessary, fixes hurdles to form sheep fold; removes flock to fresh pastures when herbage is exhausted; protects ewes in lambing season.

shepherd boy; shepherd's page (*East Angles*); helps shepherd (q.v.) with sheep; romps up sheep that have strayed and helps to remove flock to new pastures.

021.—AGRICULTURAL MACHINE, TRACTOR—DRIVERS, ATTENDANTS.

agricultural steam engine attendant, agricultural traction engine attendant, *see* traction engine driver.

corn threshing, *see* threshing machine attendant.

engine driver (threshing machine), *see* traction engine driver.

engine man (on farm); (1) *see* traction engine driver; (2) attends to any engine on farm; *cf.* engine man (059).

hay bailer attendant; *hay presser, driver* *grass cutters*; one of a gang engaged in turning loose hay into hay baling machine which gradually compresses it into a compact and regular shaped bale; secures ends of wire round compressed bale; releases pressure, removes bale and resets wire for next compression.

hay presser, *see* hay bailer attendant.

motor plough driver; steers and controls motor plough, from a seat on the plough, over fields that are being ploughed up; *as for* motor tractor driver.

motor tractor driver; tractor driver; steers and controls engine of motor tractor from a seat on the tractor, behind which is fixed a plough or other agricultural instrument; tractor may also be used for haulage when driver fixes steel tyres over wheel flanges; tractor acts as large engine in good running order; may do minor repairs and adjustments.

reaping machine attendant; a carter (023) (q.v.) who drives horses (or motor) attached to a self binding or a reaping machine and brings out and secures as required by means of a lever; if machine is a self binder, operates at regular intervals, levers controlling the automatic binding of sheaves and the cutting of the twine.

steam cultivator attendant, *as for* steam plough attendant.

steam plough attendant; stands at end of field in course of being ploughed, turns plough on to fresh furrows and adjusts cables by which plough is drawn by and to source of power, changing cable from back to back of plough or vice versa according to direction in which plough is to proceed.

straw press attendant, *see* hay bailer attendant.

threshing machine attendant; corn thrasher; (1) feeds threshing machine with grain in the ear from stack or rick; (2) places sacks to chute, through which grain is fed automatically by machine, and removes sacks to store when full; is usually one of a gang which comprises a threshing outfit from farm to farm.

traction engine driver (threshing machine); agricultural steam engine attendant, agricultural traction engine attendant, engine driver (threshing machine), engine man (*on farm*); drives and looks after traction engine attached to threshing machine; sees that driving band is properly coiled and regulates speed of drive.

tractor driver, *see* motor tractor driver.

does odd jobs not falling strictly within duties of shepherd, ploughman, etc.; may do sheathing, look after farm machinery, will take place of ploughman (013), cattle-man (025), etc. (q.v.) who may be absent for any reason.

outworker: a casual female worker on a farm, thinning turnips, planting potatoes, herringing, etc.; usually a relative of ploughman, living in immediate neighbourhood.

pig man, pig attendant, pig feeder, piggery man; *swine feeder, swine herd, swine herdsman*: a farm labourer (q.v.) who feeds pigs, with special care in preparing food for young pigs; cleans out sty and lays down litter.

potato granger, *see potato riddler*.
potato picker: a casual labourer who collects potatoes in sacks or baskets after they have been turned out of ground by potato raising machine and conveys them to "pit".

potato riddler; *potato granger*; separates "wares" (selectable) potatoes from seed potatoes, and from "clats" (small and worthless, usually fed to pigs), or "riddle," i.e., a machine consisting of an inclined mesh perforated with holes of various sizes through which potatoes fall; turns wheel of machine which causes holes to open and close.

potato sifter: (1) carries seed potatoes in basket and places same, *see*, seed potatoes, at regular intervals in furrow ploughed by ploughman (013) (q.v.); (2) a sifter (014) (q.v.) who plants potatoes by means of a mechanical potato sower.

potato splitter: a farm labourer (q.v.) who cuts seed potatoes with a knife into "sets," each having an eye attached capable of forming an independent plant.

rick crowder, *see thatcher*.

rock boy, *see hard scarer*.

servant man (*Walter*), *see farm servant*.

shinger: *Carved turn*; a casual labourer employed for short periods on different farms; rarely works regularly on one farm.

spade hand, *see spademan*.

spade labourer: a farm labourer (q.v.) employed in digging, as concealed with men who stand to cattle.

spade man; *spade hand*: Northumberland term; a skilled worker, capable of farming, looking after machinery, etc.

stand-to man; *Devonshire term* for farm labourer (q.v.).

stone picker: a casual worker engaged in cleaning arable land by collecting stones which are used for road making.

strapper: (1) *Devonshire* a sifter (*adjunct* *overseer*) a casual labourer, employed to do odd work in fields or about the farm.

straw binder, straw trusser, *see hay binder*.

straw cutter, *see hay cutter*.

swine feeder, *swine herd*, *swine herdsman*, *see pig man*.

thatcher, thatch thatcher; *rick crowder*; constructs thatch roof coverings for ricks or stacks; combs trusses of straw to make smooth and fastens combed straw securely to rick with wire rope; trims edges of straw with special knife; may also thatch cottages or other farm buildings; cf. *thatcher* (583).

wreder: a casual labourer who hoes out, by hand, the weeds growing round crops in a field, working on a time or piece-work basis.

wire worker (*harp*): stretches wire from post to post in a hop field to form frame work upon which lines are trained; repairs broken wires or tightens slackened wires; work usually done by hop ground labourer (q.v.).

025.—GARDENERS' LABOURERS.

fruit man: a labourer (q.v.) on a fruit farm.

fruit sprayer: a labourer (q.v.) on a fruit farm who sprays fruit trees and plants with solution containing chemicals as a protection against disease; usually also true machine tinker with fruit growing; gardener's boy; *see* *garden* (015).

In unskilled work, e.g., weeding, watering, sweeping lawns and paths, burning rubbish.

labourer: does unskilled work about a garden, nursery, orchard, etc., e.g., digging, planting, manuring, hoeing, picking and

spraying fruit trees, lifting and drying bulbs (on bulb farm); sometimes specially designated, e.g., bulb farm labourer, fruit farm labourer, fruit plantation labourer, nursery labourer, orchard labourer.

labourer, cottage: a cottager (031) (q.v.) who works as labourer in nursery, market garden, etc.

labourer, landscape; dig and drains labourer, shrubs, etc., *see* market paths under supervision of landscape gardener (013) (q.v.); does any other unskilled work in connection with laying out of new garden.

labourer, policy; *Swatow term*; a gardener who picks peas by hand and keeps the policies or grounds surrounding the home on a large estate.

lawn mower; cuts grass lawn usually by pushing a machine or driving horse or pony drawn machine; cf. motor lawn mower driver (015).

lawnmower; a casual worker who ties up rubbish in bundles with wires or bands for despatch to market.

spade hand; dig and does other unskilled work in nursery, market garden, etc.

026.—LAND DRAINERS, DRAINAGE LABOURERS.

bank repainer (land drainage); a drainage labourer (q.v.) who repairs broken ditches or other water courses with earth and clay usually dug from bed of ditch with spade; may cart clay from other districts for the purpose.

drainage labourer; a ditcher (024) or drainage labourer (q.v.) working on his own account, who repairs existing systems of field drainage, or lays simple system of drainage in accordance with instructions of farmer (011) (q.v.).

drainage labourer; cleans silt and weeds from watercourses with rake and spade, repairs the banks thereof in stony land, plastering them with clay laid on with spade; may also help to lead and calld barge in which clay is taken from one district to another; sometimes specially designated, e.g., flat drainage labourer.

drain labourer: a drainage labourer (q.v.) who cleans ditches of rubbish and silt with spade and rake; may cut weeds from banks with scythe and sickle.

drainer; *sewerer*: a drainage labourer (q.v.) who digs trenches, lays drainage pipes, and fills up the trench with loam and a dig out watercourses and ditches or ditches sometimes specially designated, e.g., estate drainer, field drainer, land drainer, land pipe drainer, land side drainer.

dyker: a drainage labourer (q.v.) who digs out new watercourses, ditches, or ditches, or repairs old ones, by clearing away weeds and redigging channel.

marsh labourer, marsh man: a drainage labourer (q.v.) working on marsh land.

penstock keeper, *see sluice keeper* (land drainage).

sewerman (land drainage), *see* drainer.

sluice keeper (land drainage); *penstock keeper*; controls flow of water in land drainage systems of fens, marshes, etc., by opening or closing sluices by hand; keeps sluice clear of weeds and silt; also keeping parts.

027.—LABOURERS IN WOODS AND FORESTS.

cone collector; climbs trees to collect cones; picks them for despatch to seed extracting kilns.

coppice labourer, coppice worker, *see* *conifer labourer*.

coppice outtier: (1) cuts or thins undergrowth of coppice or belt with an axe; (2) cuts saplings for conversion into wooden houses, often also cuts wood for hurdles, pea sticks, etc.

conifer labourer; a labourer employed on conifer work, generally woods.

couter (*stick making*); cuts sticks in rough state from hedger, or from bushes or trees in woods, for manufacture into walking sticks, etc.

plantation labourer; *coppice labourer*, *coppice worker*, *wood labourer*; does unskilled work in tree plantation, thinning undergrowth, cleaning ground, protecting

saplings, watching for forest fires in summer, etc.

root grabber, stump extractor, *see* wood grubber.

timber haulier; drags trucks of felled timber trees from woodlands to roadside by means of horses and wire ropes lashed to the trucks; dumps the timber or assists wagoner (025) to load on to timber wagon.

wood grubber; *root grabber*, *stump extractor*; extracts stumps of trees from the ground by means of jacks or explosives when woodland is to be used for agricultural purposes.

wood labourer, *see* plantation labourer.

028.—ESTATE LABOURERS.

estate labourer; does unskilled work in maintenance or repairs on estates, setting undergrowth in woods, repairing hedges, fences and gates, cleaning ditches, etc.

029.—PEA AND FRUIT PICKERS.

fruit picker: a casual worker on a fruit farm picking any fruit, e.g., strawberries, plums, during short season when fruit is ripe; places fruit in baskets for despatch.

pea picker: a casual worker in a market garden who picks peas by hand and places them in sacks ready for despatch to other pickers or gathers other vegetables at other seasons.

030.—OTHER AGRICULTURAL OCCUPATIONS.

agglarman, agglar, *see beekeeper*.

beekeeper; *agglarman, agglar*; keeps an apiary; hives and feeds bees, and removes honey from hives by hand or small comb; extracts honey from large comb with machine extractor, a machine resembling a milk separator, which extracts honey by centrifugal force, and draws off honey into bottles through tap at bottom of extractor; returns combs to hive for further use in honey-making.

beekeeper; a casual worker who is trained or in small comb; may breed bees and queens of special strains; may also give advice to amateur beekeepers or look after bees, e.g., swarming, extraction of honey, or their health.

beekeeper's expert; visits bee-keeping members of British Beekeeper's Association and gives general technical advice on bees, particularly with regard to disease; may also be judge of honey, bees, and bee-keeping appliances at agricultural and horticultural shows; must have passed the final examination of the British Beekeeper's Association; may also be a beekeeper (q.v.).

chicken fatteners; fatten poultry for market, generally by cramming process; selects and confines birds to pens; makes food to suit the requirements of the birds.

chicken plucker; removes feathers and prepares poultry for market.

drum feeder (*seed cleaner*); feeds seeds from a measure into rotary cylinder or drum of seed cleaning machine; fits machine with fine or coarse wire sieve according to class of seeds to be cleaned; operates machine which causes seeds to fall from drum on to sieve, the dirt being blown off by a series of fans.

fern or bracken collector, outtier, *see* gatherer; cuts with scythe or sickle and pushes fern, bracken or heather for stable bedding, litter, etc.; forks into cart; usually done by farm labourer (024) (q.v.).

furze outtier; keeps heath and common land clear by cutting furze (gorse) with bill hook and cutting in hags to burn; usually done by farm labourer or labourer for rural council.

ganderess, goose girl, gossway; looks after geese on common land, and prevents them straying; feeds and waters them and carries them back to the farmyard at night; *shepherd*.

grass keeper; is responsible for keeping grass plots trim and tidy in certain public streets and squares; mows, weeds, rolls, and sweeps lawns; trims edges; waters lawns from hose in dry seasons; may also maintain gravelled paths in good order.

hop net dealer; grows small hop plants to sell to hop growers.

looly collector, cutter, or gatherer; answers collector, cutter, or gatherer; collects seaweed on seaboard, making it into heaps above high water mark; may gather from water in boats with help of grappling irons and long-handled sickles; when dry, turns heaps to ads for sale to chemical factories for recovery of iodine; work usually done by coaster (011) (q.v.).

labourer in rod host; a labourer on willow or other bed who does any general labouring work, under direction of other grower (q.v.); work sometimes done by other grower.

moose catcher; traps or digs out moose; works on his own account, or contracts to clear land of moose; sometimes regularly employed by Dringage Society or by one farmer or landowner to sell skins.

moose collector, cutter or gatherer; cuts or tears up and collects sphagnum moss for surgical uses or for use by doctors on haemorrhoids, etc.; sticks to dry; ties up in bales with straw twine.

moose man; an independent worker, supplying moss under contract.

moose man; works on a "moose," or piece of reclaimed land, on agricultural work or land drainage.

moose peeler; Scottish term; contracts with farmers to cut peat fuel and supply moss litter; removes, by spade, top layer of moss or peat which covers peat, and prepares for peat digger (q.v.); dries moss for sale as litter; may also dry and cut peat.

moose peeler; sometimes other, willow, or withy rods in large tank of boiling water for several hours to "soft" them, extract peat, allows them to drain, rolls them and dries them on sun and air; sometimes also does work of other peeler (q.v.).

moose grower; willow rod grower, withy grower; (1) prepares other beds by double digging to depth of 18 inches; plants seeds, i.e., the heads of large oar rods, in prepared trenches to depth of 10 inches; weeds and hoes the ground of other beds; sorts grown and cut other rods into various sizes; bolls and peels oar rods; other peeler, once peeler; sells oar rods, willow, or withy rods when peeled and dried to basket makers; (2) supervises work of labourers engaged in various operations of other growing, including labourer in rod host, oar peeler, once peeler (q.v.), and sells rods to basket makers.

moose peeler, oar trimmer; willow rod trimmer, withy trimmer; stands out willow rods (see willow cutter) upright in shallow pits of water until sap rises and growth begins; strips or peels bark from rod with bridle, a scower's like tool, with or without previous soaking; work sometimes done by oar peeler or by other grower (q.v.).

moose cutter, peat digger; digs and cuts peat with special peat cutting spade; lifts out pieces of peat and sends to dry; usually done by coaster (011) (q.v.).

moose litter worker; cuts moss away from peat and spreads to dry; handles and ties up in bales for sale as litter.

poultry boy; sends poultry man (q.v.) in feeding and watering poultry, or in cleaning out house and spreading and collecting eggs; takes eggs to station; acts as messenger generally.

poultry feeder, poultry man, poultry attendant; feeds and waters poultry on poultry farms, cleans out houses and lays litter in them; collects eggs, kills fowls, and separates broody hens in pens.

poultry manager; supervises work of poultry men and boys (q.v.) for farmers; attends at markets or sales of poultry; superintends hatching and brooding; checks records received from poultry men; buys poultry food; works generally under direction of employer.

rabbit catcher, rabbit trapper; sets snares or traps for rabbits; sometimes designs rabbit from burrow with stick; ferrets; may sometimes shoot; sells as food.

rat catcher; vermin destroyer; exterminates rats by trapping, poisoning, with ferrets and dogs, or by other method.

reed collector, cutter or gatherer; widge collector, cutter or gatherer; cuts and gathers reeds with scythes and sickles, for use in thatching or as litter; works sometimes to dry; generally works on own account; sometimes an employed person, cf. river weed cutter.

reeds (green, rhine, ripe) labourer; cleans sick, weeds, and reeds with spade and rakes from reeds, i.e., shallow waterways, soles as boundaries between patches in Somerset and Dorset; works on reeds; also drains and repairs tributary ditches; cf. drainage labourer (020) (q.v.).

river weed cutter; undertakes contracts to clear certain parts of a river of any weeds, etc.; drags and through the water from the banks of the river, or cuts weeds by hand with scythe, from bank; may use a punt and drag or cut weeds as he proceeds.

seaweed collector, cutter or gatherer, see reed collector.

sedge collector, cutter or gatherer, see reed collector.

swan feeder; feeds swans and other birds, e.g., ducks, water hens, kept in public parks; provides cover from inclement weather, especially during breeding time; feeds birds and gives out bits or shreds; may be done by park labourer (800) (q.v.).

tea-bale maker-up; roughly sorts tea-bales into fine and dry (cf. tea-bale grower (311)) and ties them in glassing, i.e., bundles of twenty-five; does twenty glassings horizontally into a split rod, or store, and ties rod together as top, ready for sale to tea-bale merchant (770) (q.v.); sometimes under direction of tea-bale grower (011) (q.v.).

turf cutter, turf getter, turf labourer, turf splitter, turf worker; cuts turves under direction of turf dealer (q.v.) using a moor, i.e. a special long-handled knife one piece of turf 12 inches wide and about 30 inches long, extending to depth of 2 inches; cuts underneath with a silver tool; lifts and rolls turf and stacks in house for despatch.

turf dealer, turf contractor; undertakes contracts to supply turf for tennis lawns, bowling greens, etc., and superintends turf cutters (q.v.); sometimes also does work of turf cutter.

vermin destroyer, see rat catcher.

watercress (own account); breeds rabbits in a warren; feeds them in winter; stores or traps rabbits periodically for sale; prevents trespass or damage to warren.

watercress cultivator or grower; grows watercress in slowly running water with gravel bed; superintends work of watercress labourers, and watercress cutters (q.v.); dispatches or conveys bunches of gathered watercress to market or sells to itinerant dealers.

watercress cutter, watercress gatherer; a watercress labourer (q.v.) who cuts or gathers watercress by hand, using a knife, from a watercress bed; ties up watercress with oar or hose and packs bunches in baskets or hampers ready for sale or despatch to market.

watercress labourer; general term for any worker who cleans watercress beds, removes weeds and rubbish, sees that water (running stream) is kept clear, regulates supply of water by building dams of gravel, etc., prepares beds (gravel) for watercress growing and sometimes cuts and bunches watercress ready for market; cf. watercress cutter.

willow cutter, willow garth labourer; a labourer in rod host (q.v.) who cuts willow or oar rods with head knife, in clearing, when laid flat; usually also trims or peels them.

willow land man; hoes and digs willow land, and plants sets for oar growth; cf. oar grower.

willow rod grower, withy grower, see oar grower.

willow rod trimmer, withy trimmer, see oar peeler.

ORDER III.—MINING AND QUARRYING OCCUPATIONS.

Sub-Order I.—In Coal and Shale Mines.

040.—OWNERS, AGENTS, MANAGERS.

agent, colliery agent, mining agent; captain, chief miner, resident manager, steward, clerks; in complete control of

technical and commercial affairs of colliery or shale mine and is responsible to directors alone; appoints subordinate superintending staff (cf. See Mines Act, 1911); deals with all important matters; at some mines, surface duties are delegated to surface agent (q.v.) and underground duties to underground agent (q.v.).

captain, see agent.

chief viewer, see agent.

coal manager; see agent; cf. master (011).

diplomer, see surveyor.

engineer, mine engineer; (1) is Durham and Northumberland, has charge of all boilers and machinery on surface and below ground; keeps watch book showing shafts worked by north and wages due to them; superintends work of engine-wrights (041) (q.v.); (2) is Scotland, see surveyor.

general manager; an agent (q.v.) who is manager of profit of colliery and often with several certificated managers under him.

lender; see surveyor.

lessee; and master, owner, coal owner; holds lease of colliery from coal owner (q.v.); may sometimes perform managerial work as managing director.

lessee; see surveyor.

lieutenant, see surveyor.

manager, colliery manager, colliery manager, superintendent; has entire management of colliery or shale mine, and is responsible for observance of Coal Mines Act, 1911, and of general regulations thereunder; must hold first class certificate of competency under the Mines Department, and be not less than 25 years of age; must make daily personal supervision of mine and acquire practical experience of all work done; sometimes acts as commercial manager.

owner, coal owner, see lessee.

owner, coal owner, see agent.

royalty agent; a mining engineer who acts on behalf of royalty owners; goes down pits and measures, by means of various instruments, etc., coal worked in order to determine royalty payable to owners.

royalty master, or owner; lessee; an owner of minerals who receives "royalty" (of as much as 60%) from lessee for all disposable coal won.

steward; (1) see agent; (2) is Yorkshire a manager (q.v.) of small pit.

superintendent, see manager.

surface agent, surface manager; has charge of surface work at colliery under chief agent; appoints subordinate staff; interviews all pit surface, e.g., bank foreman (041); gives all important decisions on surface work.

surveyor, colliery surveyor; dipler, engineer; superintends underground drainage; takes bearings in mine by means of dipler or compass; books all bearings and length of bearing as measured by oar man (041) (q.v.); plots survey and prepares plans of mine workings from surveys made as required by Coal Mines Act, 1911; sees that roads are driven according to plan; establishes specifically designated, e.g. underground surveyor.

underground agent; an agent (q.v.) who has all responsibility for operations of underground agent; appoints all subordinate underground officials; co-operates with manager (q.v.).

under-manager, certified under-manager, colliery under-manager; under-manager; is responsible, under the manager, for management of mine and for all persons employed under him; must be qualified as required by Section 6 (2) of Coal Mines Act, 1911; in absence of manager, is usually responsible for working of mine; is often assisted by assistant under-manager (041) (q.v.) and by one or more over-men (041) (q.v.).

under-viewer, see under-manager.

viewer, see agent.

041.—SUBORDINATE SUPERINTENDING STAFF (including Inspectors, Contractors and Foremen).

aerial ropeway foreman; in charge of aerial ropeways used for conveying dirt from pit bank or roadway to dirt heap or small coal in roadway and there to coke screen, etc.; examines ropes periodically and reports to engine-wright or engineer (040) (q.v.); sees that sheaves, pulleys, etc., are greased and in good order,

supervises repairs; work done in some areas by engine-wright.
 air road inspector; *examines roadways, windroad inspector*; examines ends and roof of airways necessary for ventilation, and is responsible for their maintenance and repair; work usually done in *Lancashire* and *S. Wales* by fireman (q.v.).
 ambulance superintendent; is responsible for efficiency of ambulance appliances; sees that ambulance bays are kept fully equipped; orders fresh supplies; gives first aid to any injured worker.
 assistant deputy, *superintendent, examiner, assistant fireman*; *deputy fireman*; assists deputy, examiner or fireman in his manual duties as distinguished from his statutory duties under Coal Mines Act, e.g., helps to lay rails and get tubs on rails, set up timber and arrange brattice cables and to fix doors and frames; examines coal got to see that it is free from dirt and rubbish; may hold certificate to fire shots, assistants looker; *deputy looker*; assists looker (q.v.) in some of his duties, e.g., inspecting coal on belt and conveyor, overseeing weighing, keeping time books.
 assistant traffic manager, *see* traffic manager's assistant.
 assistant under-manager, assistant under-viewer, *assessor, under-manager* (1945) (q.v.) and sits in his absence; has charge of a definite area of mine and is responsible for safety, output; in some districts work is done by back overman or fore overman (q.v.).
 back-bits deputy; makes daily examinations of workings in "back-bits," i.e., between shaft and working face but not at actual coal face, under direction of back overman (q.v.); does necessary timbering in small areas, otherwise directs timberers (1945) (q.v.).
 back overman, back shift overman; *middle shift overman*; represents under-manager (1945) (q.v.) and carries out supervisory duties during second shift; visits daily (as far as practicable) parts of mine not visited by fore overman (q.v.); confers with overman, master stibler and deputies (q.v.) on state of mine; makes daily report; is in control of fireman in his shift; in some districts work is done by back overman under-manager (q.v.).
 bailiff; (1) *see* overman; (2) in *West Yorkshire* is manager of small pits; cf. *overman* (1945).
 bank foreman, bank overman, bank superintendent; *bank inspector*, *pithead foreman*, *pithead inspector*, *pit top foreman*, *surface foreman*, *top bow*; is in charge of workmen above ground working at head-stead; in coal mines as distinct from chalk and other mines, is also in charge of men at surface; is responsible for proper cleaning and securing of coal, where there is no screen foreman or looker (q.v.).
 bargain man, bargain taker (not a lawyer), *see* contractor.
 bangle driver (*Durham*), *see* haulage foreman.
 belt inspector, *see* screen foreman.
 boiler inspector; makes statutory inspection of steam boilers and reports on their condition; looks after repairs by blacksmith; usually done by blacksmith (1905) (q.v.); work usually done by engine-wright (q.v.).
 brow major; *lead bankman*; in charge of loading and unloading cages at surface; gives signals for winding operation.
 bumber (slag), *see* bawling foreman.
 butty, buttyman (not a brewer), *see* contractor.
 chain inspector; inspects chains in use in and about mine, especially those used in engine-chain hauling system; reports defects to engine-wright or fireman by blacksmith; usually done by blacksmith (1905) (q.v.).
 chargeman; in *Northumberland* and *Durham* a deputy (q.v.) on repairing or night shift, in its absence *chargeman* (1945) repairs, shafts (1944) and distalies (1945) generally; sometimes specifically designated, e.g., night chargeman.
 charter master, *see* contractor.
 coal inspector; (1) inspects coal at pit bank after it has been cleaned and before it is passed for sale; in *S. Wales* (S. York), *cropper*; examines coal sent up by collier (1943) (q.v.), and, if necessary, screens coal at special screen; determines, in

collaboration with weigher and check-weigher (1945) (q.v.), whether further sale will be paid for or not by collier for dirty coal.
 coal wharf manager; in full charge of coal wharf from which coal can be shipped in barges, etc.; supervises one or more clerks, keeping records of coal received and shipped; cf. *harbour manager* (170).
 colliery estate agent, *see* house inspector.
 contractor (not a lawyer), colliery contractor; bargain taker, bargain taker, butty, buttyman, charter master; (1) contracts for getting of coal in specified sections at agreed rate per ton, employs and pays his own workers (hewers, etc.); carries out all necessary timbering and repair of stall; stores and packs stone; responsible for safety of his workers; (2) contracts to keep in repair certain lengths of underground roads; (3) contracts to clear coal at machine cut face at fixed price per ton; sometimes specifically designated, e.g., coal mining contractor, shaft mining contractor.
 contractor, *see* make-up system; a contractor (q.v.), who contracts at a price, on the understanding that the colliery will guarantee the minimum rate of wage to his workers.
 corporal; in *Midlands*, superintends head-senders, under-keepers and stands pipe drivers; *see* for haulage foreman.
 cotcher (S. York), *see* coal inspector.
 cropper, *see* coal inspector.
 day deputy, day examiner, day fireman, day shift fireman, day shift inspector; a deputy examiner or fireman (q.v.) on day shift.
 deputy; *deputy fireman* (*Durham*), *examiner, inspector* (*Southland*); is in charge of district or section of seam; is responsible for ventilation; makes reports as to gas, state of roof and sides and general safety; takes temperature and barometer readings in some cases also sets timber, lays rails, fixes brattices, and, if holding fireman's certificate, fires shot for men; sometimes specifically designated, e.g., night deputy.
 deputy fireman, *see* assistant deputy.
 deputy looker, *see* assistant looker.
 deputy overman (*Durham*), *see* deputy.
 deputy overman; a deputy (q.v.) who is responsible directly to the under-manager (1945) and not to the overman (q.v.).
 dog's head doggy; (1) *see* haulage foreman; (2) slang name for various small offside to foreman.
 drainage inspector, *see* mine drainage inspector.
 engine road corporal; a corporal (q.v.) in charge of mechanical haulage on underground system.
 engine-wright; *machinery inspector*; has charge of whole or part of machinery on surface and below ground, according to use of colliery; examines and tests portable engines, chains, pumps, winding gear, air compressors, engines, etc.; is assisted by foremen and inspectors, e.g., chain inspector, boiler inspector, aerial ropeway foreman, pump inspector (q.v.); reports to engineer (1945) (q.v.).
 engine-wright, *see* deputy; sometimes specifically designated, e.g., night engine-wright.
 examiner of tubs and cages; does minor repairs; sends other faulty tubs to repair shop; reports to engine-wright (q.v.).
 farm manager, *see* shaft examiner.
 fireman; legal title of a deputy holding a certificate to fire shots as required by Coal Mines Act, 1911; the fireman, however, does not usually set timber, as is sometimes done by deputy; sometimes specifically designated, e.g., night fireman.
 fireman (stoppage exam); examines fire stoppings, built to isolate fire in colliery workings.
 foreman; *master*; superintends work of set of workmen either above or below ground; sometimes specifically designated, e.g., foreman hewer.
 foreman handier, *see* haulage foreman.
 foreman pigman, *see* shaft examiner.
 foreman wanner, *see* washing master.
 fore overman; is in charge of workers on coal drawing "face" shift, i.e., morning shift; is subordinate to under-manager, has superior to fireman, examiners or deputies on same shift; responsible under management for safety of all men, which he visits daily; registers all time worked, yard work, etc., done by hewers (1943), putters (1945) and diall workers (1945)

(q.v.); in some districts, work is done by assistant under-manager (q.v.).
 gaffer, *see* overman, sometimes specifically designated, e.g., night shift gaffer.
 haulage contractor; takes contract on transport lorry for whole or part of haulage operation; engages and pays his own assistants.
 haulage foreman, haulage overman; *baggy driver* (*Durham*), *bumber* (*slang*), *doggy*, *road doggy* (*slang*), *foreman hauler*, *master haulier*; in charge of haulage haulage, *see* putter, *see* putter, *putters* (1943); was that loaded tubs are going to proper roads and that empty tubs are going to proper districts; responsible for harness and sees that it is kept in good repair; cf. *colliery-wright* (1945).
 haulage rope inspector; inspects ropes (wire or hemp) in haulage work and reports defects to engine-wright (q.v.).
 head bankman, *see* brow major.
 heap inspector, *see* bank foreman.
 heap keeper, *see* screen foreman.
 horse inspector; inspects horses and ponies used in and about mine and certifies that in proper condition for working; sometimes also does work of farrier or barn smith (1905) (q.v.).
 house inspector; *colliery estate agent, inspector of colliery property*; inspects miners' houses, where these belong to colliery owners, to see that they are kept in repair; work often done by foreman joiner or wanner.
 inspector; a general term covering a number of subordinate officials or foremen under the manager or engine-wright, e.g., boiler inspector, heap inspector; (2) (*Swindon*) *see* deputy; sometimes specifically designated, e.g., night inspector.
 inspector of colliery property, *see* house inspector.
 inspector of refuse station; is responsible for upkeep of refuse station and for efficiency of refuse belande; orders supplies of refuse bins (cages, haulage, etc.).
 looker (*Durham* and *Northumberland*), *see* screen foreman.
 keeper, keeper instructor (colliery refuse station), *see* refuse station superintendent.
 lamp inspector; conducts periodic examination of safety lamps and reports to management.
 loading inspector; (1) supervises the tipping of coal at loading shoots on surface as to prevent damage to coal; usually done by screen foreman assistant looker (*Durham*) (q.v.); (2) supervises loading of cages or tubs below ground to prevent loading of undue amount of impurities; often done by deputy, examiner or fireman (q.v.); cf. *coal inspector*.
 machinery inspector, *see* engine-wright.
 master, *see* foreman.
 master handier, *see* haulage foreman.
 master shifter; in charge of repair and construction work underground on the repairing or night shift, takes instructions from overman; responsible for getting pit lams through winding order for working shift next day; oversees timbering of roofs, etc., and general safety of pit; supervises gang of repairs, shafts (1944) and stone-men (1945).
 master of works; in charge of stone-men in district of stone-men; in charge of stone-men (1945) (q.v.); supervises work of drilling and boring, tipping of roofs for making height, driving made through headings, etc.; receives instructions from overman or manager (1945) (q.v.).
 master of works (*Durham* and *Northumberland*), *see* air road inspector.
 metal contractor, *see* stone contractor.
 middle shift overman, *see* back overman.
 mine drainage inspector (*Staffs. term*); *drainage inspector*; is responsible for proper working of pumps, syphons, pipe columns, ledgers, and adits in connection with mine drainage system; mine person, *see* stone contractor, and does all repairs; reports to engine-wright (q.v.), who in other districts is responsible for night boss (slag), night chargeman; (1) an overman (q.v.) working on night shift; (2) in *Northumberland* and *Durham* carries out duties of deputy (q.v.) on repairing or night shift.
 overlocker, *see* overman.
 overman; *king, overkeeper, gaffer, under-looker* (*Midlands* and *Lancashire*); supervises working of mine under direction of manager or under-manager (1945) (q.v.),

makes daily report in prescribed form; is superior to deputy, examiner or foreman (q.v.) working on same shift; usually holds second class certificate under Coal Mines Act; for duties, see *beek overman*, *overman*; sometimes specifically designated, e.g. night overman, night shift overman.

overman, sectional; an overman (q.v.) in charge of part of mine.

overman; an amputee appointed in some coalfields to decide disputed points on which previously appointed arbitrators (an employer's and a workman's representatives) have failed to arrive at agreement, pit foreman; general term, seldom used, to cover miscellaneous officials exercising general supervision of work done in pit, e.g. overman, deputy.

pithead foreman, pithead inspector, pit top foreman, see beek foreman.

pit hammer, see traffic man.

pump inspector; is responsible for efficiency of pumping apparatus; makes periodic examination of valves, glands, etc.; supervises pumpmen; executes minor repairs; reports to engineer-in-charge (q.v.).

rescue station superintendent, superintendent of rescue station; keeper, keeper, *rescue station* (colliery rescue station); has charge of central rescue station, and is responsible for testing of iron forming rescue brigades.

rope and chain inspector; shackle inspector; examines duties of rope inspector and chain inspector (q.v.).

rope inspector; *see rope superintendent*; is responsible for good condition of ropes used in and about mine; makes periodic examination and carries out minor repairs, splicing, etc.; reports to engineer-in-charge (q.v.).

screen foreman, screen inspector, screen keeper, screen inspector; belt inspector, *keep holder, keeper* (Durham and Northumberland); supervises work of workmen on screens and belts at surface, sorting coal by size, screening dust and picking stone, dirt and other impurities;

operates with beek foreman to maintain even supply of coal to take; responsible for screening machinery to engine-in-charge (q.v.); if necessary carries out minor repairs; duties performed in some districts by beek foreman (q.v.).

shackle inspector, see rope and chain inspector.

shaft examiner; *see pump manager, foreman*; *see* *shaft*; goes down shafts daily on top of cage and examines, visually and by tapping, sides of shafts, shackles, guides, ladders, ropes, etc.; makes report in prescribed form to engineer-in-charge (q.v.); when repairs are necessary, carries out minor repairs or supervises work of pitmen or shaft repairers (047).

stone contractor, stone work contractor, metal contractor; contracts to do work in mine, such as driving stone drifts or ripping roadways; engages and pays workers under him.

surface foreman, see beek foreman.

timber contractor, timberman contractor; makes and repairs or repairs timber roadways and workings in mine or any part thereof by contract.

timber inspector; examines shoring timber and pit props to see that there are no flaws, previous to their being used in mine; measures up and checks quantities for recording purposes.

token inspector; examines patterns and heaver's tokens, i.e. pieces of metal, tin or leather having stamped on them some mark by which they may be known, so that, for wages purposes, patterns and heaver's may be properly credited with amount of coal got.

top beek, see beek foreman.

traffic foreman; takes charge of and supervises delivery and dispatch of wagons about a colliery; in charge of enginemen and shunters; directs shunting operations; sometimes also looks after pit prop timber and its transport.

traffic man; *see hauler*; (i) directs shunting operations in sidings and branch railways underground; controls distribution of journeys of empty trains to various working districts; (ii) as *surface* has similar responsibilities.

traffic manager; *see traffic superintendent*; *see* *colliery*; *see* *colliery*; supervises work of traffic foreman (q.v.); makes all important decisions in arranging traffic on railways,

canals; keeps a record, with clerical assistance, of all coal sent out of colliery; as smaller collieries, work usually done by traffic foreman under supervision of surface manager (040) (q.v.).

traffic manager's assistant; assistant traffic manager; assists traffic manager (q.v.) in arranging railway traffic, shunting trucks and ensuring that trucks are properly labelled for their destination.

traffic superintendent, see traffic manager.

underlooker; in *Midlands and Lancashire*, *see* *overman*.

viewer's apprentice; in course of being trained to become colliery manager; spends a period of time on each section of the work, learning in practical manner the technical, mechanical and safety work of a mine; duties are supervised by manager, under-manager, surveyor, deputy, overman, foreman, engine-wright, etc.

wagon inspector; inspects wagons at surface and is responsible for their maintenance in good condition; may do minor repairs, referring major defects to work repair shop; work usually done by foreman smith (100) or foreman carpenter (471) (q.v.).

washing master, washery foreman; foreman washer; supervises men engaged in coal washery; ensures supply of water and coal to washing machinery; supervises oiling and greasing; may carry out minor repairs.

weighing machine inspector; makes periodic inspections of weighing machines on which pit bank wagons are weighed on their journey to and from pit; maintains them in good order by making minor adjustments and repairs; usually represents weighing machine manufacturer who is under contract to maintain machines.

winding inspector; makes daily inspection of all winding machines and makes report on prescribed form to engineer-in-charge; usually a skilled fitter (210); duties usually performed by engine-wright (q.v.).

wire-rope inspector, see air road inspector.

wire rope superintendent, see rope inspector.

workmen's examiner, workmen's inspector; one of two practical working men (not being mining engineers) who are appointed and paid by workmen to make periodic examinations of all shafts, roads, levels, workings, airways, ventilation apparatus, old workings, machinery, etc. in accordance with Section 16 (1, 2, 3) of Coal Mines Act, 1911.

042.—BREWERS AND GETTERS.

apprentice; assistant collier; assists collier in getting coal or shale, filling tubs of coal or shale and pushing them to haulage road; fetches picks and tools; in shale mines, fetches tools under direction of miner; *see* *colliery*.

assistant collier, see apprentice.

back end man; cleans cuttings from back of coal cutting machine, so as to enable him to see peeps to roof and sprags or shocks or overhanging coal.

back stripper, see fitter; detaches wash pick and crowbar, breaks up and removes machine-cut coal left at end of free-shift (morning-shift).

bargain man (bawer); *see* *contractor hewer*.

bawer, bottom cutter; undercuts with pick coal to be taken down in following shift. *bawer*; a bawer (q.v.) who drives upper bench in thick working.

blower-down; *see* *breaker, coal breaker, pick*; gets coal down by means of blower and blower, after it has been undercut by machine.

bond miner, see battyman.

bottom cutter, see bawer; cf. bottom cutter (041).

breaking coal cutter, see coal cutting machine driver.

breaker, coal breaker, see blower-down.

battyman, see battyman.

battymaker; gets down angle coal or blawick with pick under direction of bawer.

batty; (i) worker at same face but on opposite shift, i.e. night shift man is the "batty" of corresponding day-shift man; (ii) in S. Wales is partner on same shift; (iii) *see* *stone miner* *see* *battyman*.

batty collier, see battyman.

battyman; *see* *batman, batty, batty collier, bond miner*; a contractor hewer (q.v.) who

takes stall or working place on contract, and pays men under him day wage.

cleanser; *see* *grazer, rake, rake-down, scraper, scraper, scraper*; *see* *grazer, rake, rake-down* or stone by means of long-handled flat shovel, called gunning used or langes, out of groove out by coal cutting machine, and loads into tubs or throws back into goaf.

coal cutter attendant, coal cutter driver, coal cutter man, see coal cutting machine driver.

coal cutting machine boy; *see* *collier, cutter, assistant*; assists coal cutting machine man underground; scrapes out drillings or cuttings; work similar to that of cleaner (q.v.).

coal cutting machine driver, coal cutting machine man; *see* *collier, coal cutter, coal cutter driver, coal cutter man, cutter, cutter machine man, driving machine driver, stoneman, worker, machine cutter, machine*.

coal, machine (coal miner), mechanical coal miner; *see* *operator*; operates in opening, coal cutting machine driven by compressed air or electricity; cleans obstructions with pick and shovel and lays rails to enable machine to travel along working face; sets timber supports not more than 6 ft. apart against old face which has been undercut; changes cutters on cutting wheel by hand.

coal miner; collier; general term for any worker engaged in underground in coal mines, more especially hewer.

coal miner's labourer, assistant to coal miner (q.v.); employed at time rates of wages, and engaged in filling or loading or in other old jobs.

coal trimmer; trims coal away from push of coal cutting machine.

collier, see coal miner.

collier contractor, contractor collier, see contractor hewer.

collier's draftsman; (*N. Staffs*) a hewer or contractor hewer (q.v.) who cuts drafts in cross measures of coal; cf. *collier draftsman* (047).

collier's helper, see assistant.

collier's helper, see assistant.

collier's helper, see assistant.

collier's helper, see assistant.

collier's helper, see assistant.

collier's helper, see assistant.

collier's helper, see assistant.

collier's helper, see assistant.

collier's helper, see assistant.

collier's helper, see assistant.

collier's helper, see assistant.

collier's helper, see assistant.

collier's helper, see assistant.

collier's helper, see assistant.

collier's helper, see assistant.

collier's helper, see assistant.

collier's helper, see assistant.

collier's helper, see assistant.

collier's helper, see assistant.

collier's helper, see assistant.

collier's helper, see assistant.

collier's helper, see assistant.

collier's helper, see assistant.

collier's helper, see assistant.

collier's helper, see assistant.

collier's helper, see assistant.

collier's helper, see assistant.

collier's helper, see assistant.

collier's helper, see assistant.

collier's helper, see assistant.

collier's helper, see assistant.

hook runner, *see* bank rider.

drag boy; attaches drag to rear end of tube according to haulage incline; *cf.* crane footer.

dragger-down; stands at bottom of haulage incline and drags down haulage rope.

dragger-up; controls and manipulates at pit between tubes after disconnection from haulage rope ready for bottomer, assister, or assistant bottomer (q.v.).

drum lad, drummer, *see* drawer.

draw rider, *see* bank rider.

draw tender, *see* drawer.

drawer, coal drawer, miner's drawer; draw lad, drummer, draw tender, hand putter, putter, runner, trailer, tram boy, trammer, triller, truck lad, trundler, troller, tugger, wheeler; pushes coal or shale in tube or carries from working face to pass-bys on main haulage road, along which it is afterwards taken to shaft by mechanical means.

drawer-off, *see* hooker-off.

driver; *galleyway putter, gal driver* (Levenshulme), *hailer, hauler, horse boy, horse driver, horseman, jigger, jockey, putter, put hauler, putter, putter, putter, putter*; drives horse or pony used for hauling tube in coal or shale mine or on surface.

drum lad, drum tender, *see* brakeman.

duddy rider, *see* bank rider.

endless chain haulage band, endless rope boy, or lad; general term covering all workers on endless rope or chain haulage roads, including clipper, crane footer, jigger.

endless rope man, endless rope minder; *see* section under *pulling* under *rope*; attends to rope of endless rope haulage system work; checks and oils pulleys, sheaves, rollers, etc., and does all minor repairs.

engine dip hooker; couples or detaches tube at foot of pit bank; *cf.* couplee.

fengine plane man; a railway man (q.v.) who is responsible for condition of ropes, sheaves and rollers, and also for signal arrangements; applies and checks ropes.

fastener, *see* coal fastener.

fat keeper, *fat coupler-on*; *fatman, fatter*; couples full and complete empty tube at "fat" or working face terminals of haulage system; places checks at fat ends to prevent tube running away.

fatman; *Warrickshire term, *see* fat keeper.*

faster, *see* fat keeper.

fitter, conveyor fitter, *see* puller-up.

foal; *ligger, ligger boy*; a young boy employed to help a bigger boy to "put" or draw; pulls in front whilst the header (big boy) pushes behind.

gal driver (Levenshulme), *galleyway putter, *see* driver*; *galleyway horses* are hitched used in mines.

gangger, gang minder, gang rider, *see* bank rider.

gangman, *see* bank rider.

ganger, ganger, gang minder, *see* jigger.

gunney, glaz tender (North-East Lancs. term), *see* incline brakeman.

glaz rider, *see* bank rider.

gripper, *see* clipper.

guard, train guard; *as for guard* (Tory) (q.v.) on underground lines conveying workmen to and from working places.

gugman (Somerset term), *see* incline brakeman.

hand putter, *see* drawer.

hanger-on; *hooker-on*; an assistant assister (q.v.) who couples empty tube to rope at bottom of shafting incline.

hatcher runner, *see* crane runner.

haulage band, haulage lad, haulage man; *bandman, bottom band*; general term for any person working on haulage system either above or below ground, including clipper, loader-on, roadman (184), chain haulage, etc.

hailer, hauler, put hauler, *see* driver; sometimes specially designated, e.g. night hauler.

header, coal header; a putter (q.v.) working with assistance of a foal (q.v.).

help-up, *see* pusher-up.

helpman; *see* Warrickshire, tightness clipper on rope on hill or incline before reaching steep place on underground haulage roads; *cf.* billman (1049).

hitcher, *see* assister; sometimes specially designated, e.g. night hitcher.

hitcher-on, *see* clipper.

hitcher-up, *see* pusher up.

hook boy, collar's hook boy, hodder, *see* carrying boy.

hooker, hooker-at-shaft, *see* assister.

hooker-off; *drawer-off, puller-off, putter-off*; pulls full tube off cage at surface, or empty tube off cage at pit bottom.

"hooker-on," *see* hanger-on.

hooker-up, *see* incline boy.

horse boy, horse man, horse driver, *see* driver.

harrower; *Warrickshire term*; a drawer, putter or transporter (q.v.) who carries tube from pass-by to working place; often helps hawer to fill tube; sometimes used in sense of corporal (1041) (q.v.).

hatcher, hatch runner; runs "hatches" (tube or frame loaded with coal or shale) from cage to dipper on surface, or between haulage terminals and cage at pit bottom, where "crawler" (endless chain) is not in use.

incline attendant; may be either incline brakeman or incline boy (q.v.).

"incline boy, incline lad; *hooker-up*; attaches and detaches tube to haulage rope or shaft at top or bottom of incline *cf.* endless rope boy.

incline brakeman, incline breaker; *placeman, gussy footer, guggan* (Somerset), *incliner hauler, incline man, incline minder, incliner, jigger* (N. Wales), *lig minder, jig tender, jingymann, janny footer, placeman*; a brakeman (q.v.) working self-acting inclined planes, either above or below ground, controlling movement of tube or wagons by means of brakes.

incline hauler, *see* incline brakeman.

incline hitcher; a jigger boy (q.v.) who is mainly engaged in hitching on at top or bottom of incline.

"incline man, incline minder, incliner," *see* incline brakeman.

incline rider, *see* bank rider.

jigger, jigger boy, jiggerer, jigger lad, *placeman, jig hooker, jigger, jiggerer, jig minder*; attaches or detaches tube, singly or in pairs, to or from endless rope, by plastic rope in foot of "jigger," or double cork, in socket at one side or at end of tube.

jigger (N. Wales), *lig minder, jig tender*, *see* incline brakeman.

jimny lad, *see* self-acting incline boy.

"janny man, janny tender," *see* incline brakeman.

jockey, jockeyer, *see* driver.

jourymann, journey rider, *see* bank rider.

junction boy; assists junction man (q.v.) by pushing tube, moving switch levers, or signalling by means of electric bell or other method.

junction man; *off-take keeper, off-take lad*; in charge at junction, where haulage tracks branch or cross; looks or unhooks tube from one rope to another to send them to proper destination; alters points of track by hand levers; gives haulage signals by electric bell or other method.

"landing minder, landing attendant, landing keeper, landing lad; *run loader, shifter lad, station minder, riding lad*; attends to haulage tube as they arrive on landings at junctions or at extremities of haulage system; pushes tube off and on main rope; detaches and attaches tube to rope; couples tube sets or trains.

ladder-on; *hooker*; fastens boxes or tube on haulage rope by means of lashing chains; *cf.* clipper.

leader; a boy who assists driver (q.v.) by leading pony by bridle.

linker, *see* coupler.

link carrier; carries couplings, or shackles, from place where they have been detached from loaded tube at one end of haulage road to place where empty have to be coupled at other end.

"linker," *see* coupler.

locker-up, lockerman; *shifter, switcher, shifter, switcher-up, switchman, spragger, spragman, tram spragger, wheel loader*; inserts lockers, switches, sprags, or switches, into wheels of trains to check speed or to prevent their moving when disconnected from haulage rope at landings, junctions or pit bottoms; gives signals to junction man.

locker-off, *see* taker-off.

lower-in; *tak loader*; manipulates tube one at a time from set and lowers them

down sliding to assister (q.v.); *cf.* taker-off and assister-onsetter.

machine rider, *see* bank rider.

mechanical haulage band; general term for any man or boy engaged in mechanical haulage, including haulage band, etc. (q.v.).

manipulator, *see* runner-up.

motion band, *see* haulage band.

motion wheel minder; (1) *see* endless rope man; (2) *see* ditchman; *cf.* brakeman.

shifter, *see* lockerman-up.

zipper, *see* coupler.

off-take keeper, off-take lad, *see* junction man.

"onsetter" bottomer, bottom man, zipper, hauler, hauler, hooker-at-shaft, put hauler man, runner-on, setter-on; stands at bottom of shaft in coal or shale mine to push full tube on to cage and remove empty ones; signals to winding engine when to start or stop winding; sometimes specifically designated, e.g. night assister.

pit bottom man, *see* assister.

place boy; oils or greases rope rollers, and does other light work about engine.

placeman, *see* incline brakeman.

plane rider, *see* bank rider.

plane runner, *see* bank rider.

point minder, *see* placeman.

pointman; *point minder, switcher, switch keeper, switch minder, switch loader, switch thrower*; moves points of switches controlling movement of tube or wagons on colliery railway or on underground haulage roads.

ponier, *see* driver.

pony driver, pony putter, *see* driver.

"puller-off, puller-out," *see* hooker-off.

puller-up, conveyor puller-up; *runner-up, shifter, shifter*; moves forward coal conveyor or foot or putter-way driver.

"pulley man, wheel wader; fixes pulleys or rollers on haulage road, and repairs any displaced; examines and keeps in order pulleys and other wheels used for hauling or lifting; sometimes done by railway man (q.v.).

puller minder, *see* endless rope man.

pusher-on; (1) pushes tube on to cage either above or below ground; (2) *along drive* for change haulage band with supervisory work of haulage bands; *cf.* haulage foreman (1044).

pusher-up; *assistant drawer, assistant drawer, shifter-up, shifter-up, putter* (Somerset), *drawer*; helps drawer in pushing tube when gradient too steep for use.

putter; (1) *see* drawer; (2) in Scotland, *see* pusher-up.

putter-off, *see* taker-off.

rack runner, rack runner, *see* bank rider.

ragger boy, ragger lad; *signal boy*; gives and receives signals on mechanical haulage system; runs on hollow tube or runs electric bell, etc.

raggerman; *shaft minder, shaft ragger*; shifts to shaft signals at insets where persons only are warned.

rider, *see* bank rider; sometimes specifically designated, e.g. night rider.

road boy; assists railway man (q.v.) on endless haulage system, driving, waiting, etc.

rolley driver; (1) drives "rolley," i.e., carriage used to carry cages along horse-roads underground; *choatman*; (2) *see* railway driver.

rolley lad, *see* railway driver.

rolley man, *see* railway man.

rolleyway driver, rrolleyway lad, rrolley driver, rrolleyway lad; *rolley lad, rrolley driver*; drives (q.v.) who drives horse or pony hauling sets of tube to or from shafts or railway track.

rolleyway man, rrolleyway man; *head minder, headman, rrolley man, stage shifter* (Cumbria), *transportman, wagon man, wagon mind man, wagonway man*; keeps in repair and working order roads or planes along which wagons or trains are hauled by ponies or by rope attached to stationary engine; sometimes also supervises haulage bands; *cf.* haulage foreman.

rope boy; *see* taker-off from one set of rails to other after sets of tube has finished its journey on inclined plane.

rope changer; *rope minder*; uncouples tube from the haulage rope and clips to another at junction, ending or landing; *cf.* position man.

rope tender; attaches rope end to tub to be hauled on main and tail haulage systems.
 rope guide; guides incoming rope on to winding drums of main and tail haulage engines.
 rope man; examines haulage ropes, splices and re-splices them.
 rope minder, rope runner, rope cleaner.
 rope runner, rope runner, see bank rider.
 "rope splicer; splices ropes of hauling system, sometimes done by rope inspector (041) (q.v.), by ropemans or by ropelayers (q.v.).
 transducer boy; *underground*; runs messages.
 run tender, see landing minder.
 runner, see drawer.
 runner-on, see assembler.
 run rider, see bank rider.
 snotcher, see bank rider, snotchman, see locker-up.
 sectional clock hunter; a clockman man (q.v.) clearing tubs from a section only.
 self-acting derrick boy, see block attendant.
 self-acting incline boy; *down* lad; an incline boy (q.v.) working on a self-acting haulage incline or jenny.
 setter; a railway man (q.v.) who makes up sets of tub for haulage.
 snotter-on, see assembler.
 snot tub, see rider, see bank rider, see blocker, see assembler.
 shaft lad; assists assembler (q.v.) at shaft bottom pushing fell and empty tubs in and out of shafts and cage; cf. assistant drawer, assistant assembler.
 shaft minder, shaft rigger, see rigger man.
 shovelmans, see brakeman.
 shover-up, see pusher-up.
 siding lad, see landing minder.
 signal bellman, see signaller.
 signal boy, see rigger boy.
 "signaller, signalmans; *signal bellman*; operates signals and switches for men driving trucks and teams on colliery railway; strikes bell or blows tube with hammer, or rings electric bell.
 slope rider; a bank rider (q.v.) employed on a slope road or incline.
 slotter (slang), see compiler.
 slummer, see compiler-on-shaft.
 snapper, snapper-on, see clipper.
 snapper; snapper or disconnector snapper or catch which holds tube in pit cage.
 snibbler, see locker-up.
 "spragger, spragman, see locker-up.
 spunny boy, see machine boy (q.v.) who attends to take on spenny or short self-acting incline.
 tango whipper; *Cumberland term*, see railway man.
 staple braker, staple brakeman; a brakeman (q.v.) who works at foot of staple pit, a small pit sunk inside main pit.
 staple lad; assists staple braker (q.v.) by attaching and detaching tubs and guiding them from staple pit to main haulage road.
 station lad, station minder, see landing minder.
 stonebed lad; assists stone contractor (041) (q.v.) by putting stone and empty tubs from place, where stone is being ripped, to main haulage road.
 stone putter; puts or draws stone in tub from drift or onch to stowboard (below ground) or from bank and picking bins to stone heap (above ground).
 switcher, switcher cooper, switch minder, switch tender, switch turner, see pointman.
 tail runner, see bank rider.
 "take-off; *lower-off*, *putter-off*; a jigger (q.v.) who only detaches tubs from haulage rope at top or bottom of haulage incline or at end of haulage road.
 "tapper-up; receives small trays of coal from low stalls and transfers coal to larger trays with shovel, where height of roadway permits.
 trauer, trading driver; drives pony in traces, to assist driver's pony attached to tubs, either above or below ground.
 trailer, see drawer.
 train man, train rider, train runner, see bank rider.
 "train boy, trainman, see drawer.
 train rider, see bank rider.
 train spragger, see locker-up.
 trainwayman, see railwayman.
 transit lad; general term for boys employed as haulage hands underground; cf. haulage hand.

trolley, truck lad, see drawer.
 trundler, see drawer.
 tubber, see drawer.
 tub fastener, see cover fastener.
 tub loader, see conveyor hand.
 tub lowering, see lower-off.
 tugger, tugger boy, see feel.
 "turner-out; turn out, *turn*; pushes full tubs from pass-type levels or sidings at top of self-acting machine, at bottom of "dock" or dip, or at branch off mechanical haulage road, ready for benches, chain runs or horse men (q.v.).
 turn rope hauler, turn minder, turnman; men that empty tubs are properly shared out among coal face men; daily usually performed by haulage foreman or corporal (041) (q.v.).
 underpuller, see clipper-off.
 underground bankman; *as for* bankman (049) (q.v.) placing empty tubs on and withdrawing full tubs from cage at top of staple pit underground.
 unlasher; unloads lowering chains, by which tubs or drums are fastened to haulage rope, as landings.
 "wagoner, see drawer.
 "wagon man, wagon road man, wagonway man, see railway man.
 weight end lad; unshackles tubs from rope and frees each other at weighing and of haulage system.
 wheeler; (i) see drawer; (ii) see brakeman.
 wheel lad, see brakeman.
 wheel man, see pulley man.
 wheel minder, see brakeman.
 wheel wedger, see locker-up.

044.—PERSONS MAKING AND REPAIRING ROADS.

(NOTE.—The occupational terms marked with an asterisk * are also applied to workers doing similar work on the surface; for other workers above ground, see (049).)

airman, airwayman, airway repairer; *retrovers, cutters, underfoot men, wind-up men*; keeps in repair underground air passages and ventilating airways by coal or shale mines; removes debris with pick and shovel; loads debris into tubs.
 assistant repairer; (i) assists road repairer (q.v.) in repairing roadways, and maintaining proper height and width; carries tools; pushes tubs for transport of debris; generally employed at night; (ii) *in some districts* also helps in repairing roadways above ground; this is done in daytime.
 assistant timberman, see timberman's laborer.
 back brusher, back ripper; a brusher (q.v.) working on backty, *is*, not at coal face.
 bargain man, bargain taker; makes contract with manager to take down, break up and clear away stone, etc., from roadways at an agreed price rate; engages and pays his working assistants.
 bator, see prick; g cutter.
 bomber; *Welsh term*, see brusher.
 blocklayer; fixes small blocks or wooden keys for tightening rails on tramways in coal mine, using a beamline.
 bottom man, bottom room man; fall rider; removes fallen debris in tubs; repairs timbers to roof, etc., in cased roadways or bords which have been driven in pillar and stall system of working.
 bottom outter, bottom scouter; *argoyr* (*Cumberland*); cuts away stone from floor of underground roads to increase headroom.
 brusher; *brusher, brushman, cutdown, crawler, brushman, metal man, metal wiper, rock blower, rafter*; cuts away this kind of stone in roof, floor, or side of coal roadway to improve height or gradient of working; may also drill holes for blasting by fireman; builds stone sheds obtained into pick walls alongside and parallel to roadways to support overlying strata.
 byeman, byewalker, byeworkman; byeman; general terms for any man working underground, not employed at coal face, and paid by the day, generally on repairing work, etc., or getting material other than coal.
 canchman, cancher, canchman, see brusher.

contractor's dayman; is engaged and paid by contractor in trained work, enlarging roadways, etc., in coal or shale mine; includes brusher, repairer, stoneman, etc. (q.v.).
 datcher, datcher, datcher; *diller* (*Lancs.*); general term for workers paid by the day, including repairers.
 dicker; *Lancashire term*, see datcher.
 dinker; a bottom outter (q.v.) who may also blast away floor to brighten roads, enlarge roadways; keeps picks and points in order, and cleans dirt off road.
 fall rider, see hodroom man.
 gatewayman; a road repairer (q.v.) who looks after gateway, *i.e.*, road kept through "good" in longwall working; *is* parts of *Yorkshire* also builds gateway packs.
 robber, see pick blinder.
 grey cutter; takes up or cuts away, with pick, grey coal (inferior coal or shale at bottom of seam) to make height in roadway.
 incline keeper, incline traveller; *plaine cleaner, incline roller, plaine cleaner*; road repairer (q.v.) who keeps incline planes free of obstructions due to fallen stones, etc. knockdown, see brusher.
 lipper; a brusher (q.v.) who takes down roof to make height.
 metal man, metal miner, see brusher.
 night repairer; a repairer (q.v.) working on night shift.
 oncostoman, see byeman.
 packbuilder, packer, packwall builder, packwallier, stone packer, stone roller, waller, millman; builds walls of stone or dirt, and packs in debris to support roof, in longwall working, along sides of head-ings, stalls, gateways and roadways.
 peltier; takes down pelt (shale stone) from roof, after coal and shored, after coal has been taken out in very thin seams, to raise height and allow coal cutting machine to get through.
 plane cleaner, plane walker, see incline keeper.
 pricking outter; *bater*; cuts away floor with pick in seams of creep or upward towards roof, caused by weight of overlying strata.
 rodder, stone rodder, roddman; rider, riddle lad, riddler; clears away stones in tubs, or in road, etc.; fills rubble into tubs, perfect fall tube away and empty tubs back; builds up packwalls of stone.
 "repairer; (i) general term covering road repairer, road repairer, incline keeper (q.v.); (ii) *in South Wales*, enlarges roadways and sets timber; *cf.* timberman.
 return man, see airman.
 rider, riddle lad, riddler, see rodder.
 ripper, road ripper, rock ripper, top ripper; a brusher (q.v.) who takes down with pick and bar roof of road to gain height.
 road cleaner; *road sweeper, way cleaner*; keeps underground roads clean, by sweeping up debris and loading into tub.
 road end (slang); a road cleaner (q.v.) who may also assist road repairer (q.v.) in any odd laboring work.
 road feller; *Yorkshire term*, see road repairer.
 roadman; *roadhouse*; general term for any man employed on haulage or ventilation roads, including airwayman, incline keeper, plasterer (037), railwayman (041), etc. (q.v.).
 road repairer; *road feller* (*York.*); keeps roadways in repair below ground; levels road with pick and shovel; repairs broken timber and sets any necessary light timber which can be handled by one man; raises bottoms under rails where dropped; generally keeps road between shaft and pit, flat, firm and secure.
 roddman, see roddman.
 road sweeper, see road cleaner.
 rock blower, see brusher.
 rodder, see brusher.
 roddman, road repairer; works roof in repair, by resetting old props, where necessary, or by setting new props, where necessary, due to timber (q.v.).
 sagger man; *Cumberland term*, see bottom cutter.
 shifter, shifman, shifman, stone shifter; *shifter*; general terms for laborers assisting repairers, timbermen, etc., in building stoppings and clearing falls of stone.
 slope cleaner, see incline keeper.

assistant dialler, see assistant surveyor.
 assistant surveyor, *assistant dialler*; *help surveyor* (040) (q.v.) in preparing plan of mine; frequently does work of draughtsman (032) (q.v.).
 banker, *banker-out*, see bankman.
 bank head lad, *bank lad*, *pick boy* *lead*, *pit head lad*, general terms for youths working on surface of mine; include dirt picker, *endless rope boy* (033), *number caller*, *tally lad*, etc. (q.v.).
 bank labourer; *pit head labourer*, *pit head labourer*, *surface labourer*; general term for workers doing unspecialized work at pit bank (coal or shale mine).
 bankman; *banker*, *banker-out*, *bankman*, *bankman*, *bankman*; draws full tubs of coal from cage at top of shaft, and replaces by empty ones; signals to winding engine-man (052) or conductor (043) (q.v.) and regulates lowering and raising of workmen and coal.
 bankwoman, see *pit brow girl*.
 bat picker, see *dirt picker*.
 belt boy, *belt lad*, see *dirt picker*.
 belt hand; (i) see *dirt picker*; (ii) carries out small repairs to belts under belt men (q.v.).
 belt man; (i) see *dirt picker*; (ii) attends to picking belts on which coal is conveyed from screens and cleaned of stone in transit, and is responsible for their smooth running under direction of screen foreman (044) (q.v.), who sometimes himself does this work.
 Billy boy, *Billy man*; attends to working of a Billy Pulley, a machine connected with screens, which registers weight of small coal to be dropped from gross weight sent to bank by each collier.
 bog trimmer, see *dirt rock man*.
 boxman, *nut coal boxman*; watches and attends to proper working of, and supply of water to, bases in which different sizes of coal are washed; cf. *coal washer*.
 branchman, *horse branchman*; drives a horse, which pulls railway trucks along colliery sidings.
 broken picker; a dirt picker (q.v.) with picking belt removing coal showing yellow (rotten) impurities.
 brow hand; general term for person working at pit head, e.g., taking coal from cage to pit access, or manhandling tubs at head of self-acting incline.
 brow-man, see *bankman*.
 cabin man; drives and looks after pit shifter's elevator in shifter at pit head.
 cart loader; loads coal with shovel into carts for sale in neighbourhood of pit; may fill, weigh and carry coal in sacks to carts.
 censor; examines coals sent from screens, and removes impurities, i.e., sticky coal, in readiness for sale as house coal.
 catch boy; (i) changes position in baggage rack; (ii) attaches and detaches oil in main and tail bearings; (iii) operates catches which hold tubs in cage.
 chook loader; loads up chook trolley into tubs to sent into mine.
 choker shifter, see *shifter*.
 cleaner, see *cleanser*.
 cleanser at breeze box; *colman* (046); works at box or bunker where "breeze" (small dirt or coke produced from coal or coal dust) is collected after screening; sweeps up round box and with long rake keeps mechanical screen clear of obstructions; sometimes opens chute to release breeze from box or bunker into wagon.
 cleanser; *cleanser*; cleans waste courses and drains, using rakes, shovels, etc.
 click boy, see *pin boy*.
 coal cleanser, see *dirt picker*.
 coal manipulator; general term for any surface worker handling coal, e.g., *conveyor*, *picker*.
 coal picker; (i) picks over spoil or rubbish heaps with pick to make any good coal to be found; (ii) a dirt picker (q.v.) who picks out pieces of good coal from produce of seam of variable quality as it passes along on picking table.
 coal refiner; may be either coal screener, *dirt picker*, or *coal washer* (q.v.).
 coal screener; *screenman* (Scottish), *screen attendant*, *screener*, *screen*, *screen*, *screen*, *screen*; watches that coal passes over screens and dust or small coal properly sifted through; may also pick dirt from conveying belt as coal passes to screens; cf. *dirt picker*.

coal washer; *slack washer*, *washer*, *washer labourer*, *washerwoman*, *washer*; works at machine for washing coal in washery to remove impurities; sees that machinery is working properly and that water supply is maintained.
 colman; *Gloucestershire term*, see *cleanser at breeze box*.
 counter, see *tally boy*.
 crusher boy, *crusher man*; attends to coal crushing machine where coal is crushed prior to sifting or making into patent fuel; shovels coal into hopper, if not conveyor fed; controls machine by levers.
 dactman; (*Leicestershire*) a labourer who loads dirt or refuse from colliery waggons into trucks for removal.
 dirt carrier; (i) carries dirt (stone or other refuse) from picking table floor and drops it into chutes through which it reaches conveyor belt; (ii) attends to tipping of dirt on rubbish heap on surface, and dirt tip boy.
 dirt couper, see *dirt rock man*.
 dirt picker; *bat picker*, *belt boy*, *belt hand*, *belt lad*, *belt man*, *coal cleanser*, *picker*, *screen boy*, *screen girl*, *screen woman*, *shade picker*, *stone picker*, *stone wiper*; picks out dirt (stone or other impurity) from coal as it passes on picking table.
 dirt rock boy, *dirt tip boy*, *rubbish washer*; assists dirt tipman (q.v.); loads dirt (stone or other refuse) placed out of coal at picking table into pit wagon, and tips it on surface waste heaps.
 dirt rock man, *dirt tip man*; *log loader*, *dirt couper*, *dirt tipper*, *rubbish tipper*, *rubbish unloader*, *spoil tipper*, *stone labourer*, *stone loader*, *stone tipper*; empties trucks containing rubbish or refuse from below ground or from picking tables, on surface waste heaps.
 drain filler; (*Gloucestershire term*); cuts coal to make deep.
 dust man; empties dust, i.e., fine tailings from screens or washery, out of wagons into bunkers at steam boiler.
 flight attendant, see *aerial flight attendant*.
 fireman, *fine cleaner*; cleans fine of boiler; sweeps down with long handled iron scrapers; brushes out with wire brushes and clears away rubbish with shovel and barrow.
 firtree mender; keeps grips in repair, i.e., looks need for leading coal or coke into wagons; usually done by blacksmith (120) (q.v.).
 head lampman; in charge of lamproom on surface; inspects, trims, lights and locks, and makes ready miners' safety lamps, and does minor repairs.
 hillman; (i) see *bankman*; (ii) general term for any man doing labouring work on surface; cf. *hillman* (043).
 keeper; controls keeps up key by lever at pit head, i.e., movable frame used to support cage containing tubs of coal when drawn to surface.
 knapper; (*Yorkshire term*), cleans top layer of shale from coal with knapper, a small hammer and pick combined.
 lamproom girl; helps in cleaning lamps in lamproom on surface.
 loader, see *bankman*.
 lockman (lamps), or for lamp keeper (047).
 molly boy, *Motty lad*, see *number caller*.
 number caller; *motty boy*, *motty lad*; calls out number chalked by hewer on colliery frames as they are weighed by the wagner (048) (q.v.); usually done by pin boy (q.v.).
 picker, see *dirt picker*.
 pin boy, *pin girl*; *click boy*, *pinner*, *tally boy*, *tally lad*, *taken boy* or *girl*, *taken lad*; takes pins, tokens or tallies off full tubs as they reach weighbridge, and hands to wagner; cf. *number caller*.
 pinner, see *pin boy*.
 pit bank woman, or for pit brow girl.
 pit brow girl; *bankwoman*, *pick brow*, *pick brow girl*, *pick head*, *pick head lad*; picks stone or dirt from coal on picking tables. see *dirt picker*; and does other light work at surface.
 pit brow labourer, see *bank labourer*.
 pit brow lad, see *bank head lad*.
 pit brow lass, see *pit brow girl*.
 pitcher; *pond cleaner*; cleans out pond or reservoir supplying boiler feed water, or sootling ponds into which dirty water from

coal washer is run to allow sediment to settle.
 pit head boy, see *bank head lad*.
 pit head girl, *pit head lass*, see *pit brow girl*.
 pit head labourer, see *bank labourer*.
 pit head man, *pit headman*; takes tubs off cage at pithead and weighs them; usually done by bankman or assistant bankman (q.v.).
 pit head runner; runs tubs from cage to weighbridge and thence to tippers and back.
 pit-head lad; does odd jobs at headstead, i.e., platform on surface where shaft where tubs are loaded and run to screens; pushes tubs on to platform from landing, etc.
 pond cleaner, see *pitcher*.
 pony trainer; trains pit ponies above ground in leading trucks, stepping over points in track, etc.; sometimes works them for a few days, when first taken underground; cf. *horse trainer* (017).
 pusher-in, see *assistant bankman*.
 red tipper, see *dirt rock man*.
 ridge lad, *riddler*; under instructions of coal inspector (041) (q.v.), shakes small fixed weight of coal through a sieve or riddle and weighs quantity of dirt and dust.
 rider-on-top; a rider (043) (q.v.) employed on surface haulage road.
 rubbish tipper, see *dirt rock man*.
 rubbish unloader; (i) see *dirt rock boy*; (ii) see *dirt rock man*.
 screeman, *Scottish term*, see *coal screener*.
 screen attendant, *screener*, see *coal screener*.
 screen boy, *screen girl*, see *dirt picker*.
 screen hand, *screenman*, *screen trapper*, see *coal screener*.
 screen woman, see *dirt picker*.
 shover-in, see *assistant bankman*.
 slack washer, see *coal washer*.
 shade picker, see *dirt picker*.
 slag boy, *slag picker*; picks slag from coal on wagons on pit top.
 smudge picker; picks out fine waste coal and dirt from coal washer.
 sorter, *coal sorter*; sorts soft coal from hard coal on picking belts, and separates different qualities.
 spoil tipper, see *dirt rock man*.
 stone dust man; in charge of a stone dust crushing mill which crushes stone for use on underground roads to render coal dust inert; feeds trough of stone to mill by hand and shovels dust into tubs.
 stone heap labourer, *stone heaver*, see *dirt rock man*.
 stone picker, see *dirt picker*.
 stone tipper, see *dirt rock man*.
 stone wader, see *dirt picker*.
 surface haulier; drives horses or ponies which draw small trucks of coal or rubbish at surface.
 surface labourer, see *bank labourer*.
 surface man; general term for men engaged in unskilled work at surface such as laying, shovelling and repairing branch railway and sidings.
 surface rider; a rider (043) (q.v.) hauling coal or dirt on surface.
 tally boy, *tally lad*; *counter*; (i) in charge of colliers' tallies, on surface where coal sent up by colliers is weighed; assists in circulation of tubs; (ii) see *pin boy*.
 tally man, see *taken man*.
 timber loader, *timber unloader*, *timber wader*; loads and unloads timber from railway trucks into pit waggons for transport to frame for demarcation to shaft and underground workings.
 tipman, *tipper*, *shale tipper*; pushes trains of coal or shale from top of shaft and tip contents into screens, or pushes trains in automatic tippler or transfer; may operate lever which tips tubs to empty them on bank or tips.
 tippler lad, *tippler man*; *tumbler*; operates lever which acts revolving tipplers in motion, and so empties coal or shale on to screen or bank.
 token boy, *girl* or *lad*, see *pin boy*.
 taken man; *tally man*, *taken wader*; keeps account of tubs sent up on fall tubs by each hewer and putter.
 token taker; (i) see *taken man*; (ii) *weighman's assistant*; receives tubs from

token boy or girl, calls out to weighman name or number of man to whom it belongs, and hangs token on numbered peg; of number caller and tin boy.
top cleaner: (1) is employed at surface in cleaning coal and removing dirt; also levels coal of wagons; (2) sweeps and cleans up gangways, floors and platforms at pit head or at picking tables.

top beamman: attends to scraper belts on top floor of washery and to engine or motor driving elevator; regulates sliding of coal bunkers.

traceman: drives a trace pony to waste in haulage of trucks on heavy gradients; drives up tute to couple to engine set, where gradient of road requires it.

truck setter: sets empty tube in position under screen ready for loading; sets coal or shale in full tube to prevent its falling off in transit.

traffic machine assistant: wagon boy, wagon led; assists at weighing machine; fixes labels either in springs of wagon or by tacks on side; may keep simple record in book.

truck man, *see* **drawee** (043).

tub cleaner: cleans tubs or covers in which coal is transported, by scraping out sides and bottom with shovel.

tumblerman, *see* **tipples** **lad**.

viewer, *see* **coal surveyor**.

wagon boy, **wagon led**, *see* **traffic machine assistant**.

wagon filler: fills wagons with coal, usually, slack or dirt, at screens or washer on surface.

walter: levels surface of coals on wagons under screens with bar or shovel.

walter, **walter-on**: (1) acts as bankman (q.v.) at making pit; (2) attends to digests and other work about shaft top in absence of bankman; responsible for tipping and removal of shaft debris lowering of materials, etc.

washer, **washery labourer**, **washery man**, **washman**, *see* **coal washer**.

waterscourse man: keeps waterscourses clear and in repair above and below ground.

weighman's assistant, *see* **token taker**.

yard labourer: does any unskilled work in colliery yard, including coal screening, packing tubs, cleaning tubs, tipping at heaps, etc.

Sub-Order 2.—In Metalliferous Mines and Workings.

000—OWNERS, AGENTS, MANAGERS.

agent: general manager; in charge of mine, or group of mines, and is responsible, on behalf of owners, for the proper working; also manages commercial side of undertaking; has statutory duties under Metalliferous Mines Regulation Act, 1872-5, or Coal Mines Act, 1911; may also be a mining engineer.

boss: slang term used in respect of any official post; sometimes specifically designated, e.g., **mate boss**, **shift boss** (061) q.v.

captain (Correspond); slang term for various officials, including agent, manager, under-manager q.v., **dialler**, *see* **surveyor**.

engineer, **mine** **engineer**: is responsible for installation, maintenance, and periodical overhauls and inspection of all engines and machines in use at mine.

general manager, *see* **agent**.
manager: is responsible for control, management, and direction of mine, in which he gives daily supervision; has various statutory duties under Coal Mines Act 1911, or Metalliferous Mines Regulation Act 1872-5, is subordinate to agent q.v., where both are appointed.

mine agent, **boss** or **captain**: is in general charge of all underground operations.
mineral agent: **steward**, **teller**; collects royalties due to owner of mineral-bearing land, and lets generally on the latter's behalf, making periodic inspections of mine workings.

steward, *see* **mineral agent**.
surveyor, **dialler**, *see* **surveyor** (047).

toler, *see* **mineral agent**.
under-manager: makes daily inspection of mine and is responsible for its safe working in absence of manager q.v.; has various statutory duties under Coal Mines Act, 1911, or Metalliferous Mines Regulation Act, 1872-5, *cf.* **underground agent** or **manager** (051).

001—SUBORDINATE SUPERINTENDING STAFF (including Inspectors, Contractors and Foremen).

agent, **underground**: raising captain (also), **underground captain** (also), **underground manager**; an agent (050) q.v. whose duties are confined to underground workings and who receives instructions of agent or general manager (050) q.v.

captain, **underground**; **mining captain**; **slang terms**, (i) *see* **agent**, **underground**; (ii) *see* **deputy**.

chief dresser; **foreman dresser**; in charge of dressing floor labourers (050) q.v.

contractor: (i) contracts for getting of ore in specified section at agreed rate per ton; employs and pays own assistants; (ii) contracts to keep in repair certain lengths of underground roads.

deputy, **floor deputy**: **examiner**, **foreman**, **mining captain** (also), **shift boss**, **underground captain** (also), is employed in stratified iron ore mine and has specific duties under Coal Mines Act; is responsible for safety and output of men working in his district; visits each working place at least once a day, tests ventilation, takes readings of thermometer and barometer, sees that all windholes are kept clear, that all drop holes and other dangerous places are fenced, and that all lights and stags are in proper order, etc.; keeps record of his observations in book, and reports verbally to manager or, in manager's absence, to official in charge of mine, e.g., **overman**; is furnished also with necessary roof supports; *cf.* **back-bye** **deputy**.

deputy, **back-bye**: is responsible for upkeep and safety of roads between working face and shaft or entrance level; puts in roof supports and does necessary timbering work, or supervises work of timbermen (054) q.v.

doggy, **dog whipper** (slang); is in charge of underground haulage; *cf.* **haulage foreman**.

engine wright; a foreman q.v. who is responsible under engineer (050) q.v. for all mechanical plant in use in and about mine; examines and tests periodically boilers, chains, pumps, winding machinery, engines, etc.; is assisted by various inspectors, e.g., **chain inspector**, **pump inspector** q.v.

examiner, *see* **deputy**.

foreman: legal title of a deputy q.v. who holds certificate to fire shots; *cf.* **shot firer**.

foreman; **master**: (i) directs and superintends a set of workpeople, under general instructions of underground captain q.v.; (ii) is some districts, **captain** q.v.; (iii) is in tin mines, is usually employed above ground unless specifically designated as underground foreman.

foreman dresser, *see* **chief dresser**.

foreman, **surface**; **yard** **foreman**; has charge of men and boys working at mine heap or brow; supervises tipping of ore, coupling and uncoupling of trucks; keeps time records of workers.

gaffer, **ganger**, *see* **overman**.

inspector, a shift boss q.v. employed, under direction of manager (050) q.v., to examine working of mineral and ensure that proper mine is taken to obtain best possible output from any working; also ensures straight driving or hoisting of place,

and sets compass marks for purpose; in some districts work is done by deputy q.v.

inspector, **chain**; **rope inspector**; assists engine wright q.v. by making periodical examinations of chains and ropes on haulage system; taps chains by hand with hammer to see whether links are sound.

inspector, **lamp**, *see* **keeper**.

inspector, **ore**; examines deposits, bed, lodes or veins of ore, ascertains probable mineral content and decides on most profitable method of working. **inspector**, **pump**; examines pumping machinery and reports as to maintenance and repairs to engine wright q.v.

keeper; **lamp inspector**; supervises screen men (050) and pickers (054) q.v. employed on the screens and picking holes; is responsible for the alone being sent out from the mine in a clean state; *cf.* **keeper** (041).

manager, **underground**, *see* **agent**, **underground**.

master, *see* **foreman**; sometimes used in sense of manager (050) q.v.

overman, **mining overman**; **gaffer**, **ganger**, **shift boss**; supervises working of large section of mine under direction of manager or under-manager (050) q.v.; acts as intermediate official between under-manager (050) and face deputy q.v. and is in charge in absence of under-manager.

is responsible for the safety and output of district or districts; makes daily report in prescribed form.

overman, **back**: an overman q.v. in charge of back or afternoon shift.

overman, **deputy**; a deputy q.v. who is responsible direct to the under-manager (050).

overman, **fore**; **underlooker** (Midlands); an overman q.v. in charge of mine in fore or morning shift in absence of under-manager (050) q.v.; is superior to back overman q.v.

shift boss; (i) *see* **overman**; (ii) *see* **deputy**.

underlooker; in Midlands, *see* **fore overman**.

waterman: is responsible for the inspection and maintenance of return airways from the last working place to the nearest shaft; has a gang of men working on them; has to build stoppings and doors necessary for ventilation, and to keep roads, sides, etc., in repair.

waterman, *see* **waterman**.

waterman; is responsible for the inspection and maintenance of return airways from the last working place to the nearest shaft; has a gang of men working on them; has to build stoppings and doors necessary for ventilation, and to keep roads, sides, etc., in repair.

054—OTHER WORKERS BELOW GROUND.

(NOTE.—The occupational terms marked with an asterisk are also applied to workers doing similar work on the surface; for other workers above ground, *see* (050).)

airwayman, **airway repairer**; keeps in repair underground air passages, or conduits for ventilation purposes; timbers up, when necessary, and removes fallen debris with pick and shovel.

back-bye man; an underground labourer q.v. who also performs timbering work; in some districts, **back-bye deputy** (051).

banker; **baggy head**, **baggy**, **baggy runner**; **ride rider**; rides with sets of tubs or trams, to couple and uncouple haulage ropes at sidings.

hargain man; general term for men on "hargains," or contract work, paid for at an agreed rate for given volume of work, whether getting ore, driving roadways, clearing stone, etc.; usually works on his own account; *cf.* **contractor** (051).

blaster, *see* **shot firer**.

baggy, **baggy head**, **baggy runner**; (i) *see* **runner**; (ii) *see* **bank rider**.

baggy horse, *see* **runner**.

borer, **material borer**, **horing machine**; (i) controls valves and switches of compressed air or electric plant to operate boring machine or apparatus to explore probable content, thickness and inclination of ore-bearing rock; (ii) occasionally denotes driller q.v.

***borer**, diamond; operates rotary boring machine, in crown of which diamonds are set, to obtain solid cores of strata bore through.

bottomer, see onsetter.

***brakesman**, drum brakesman, incline drum brakesman, drum sprayer, incline attendant, incline lad, incline man; controls speed of brakes or sets of tube at top of incline on haulage road by applying brakes to the drum round which the haulage rope winds.

brownman; receives and attaches tube to (or detaches tube from) the rope at top of underground brow or incline and pushes tube away from landing point.

brusher, or for brusher (044).

cabin boy, or for change house keeper (050), working underground.

cage attendant, see onsetter; cf. **brakesman** (050).

cager, **cager-on**, see onsetter.

***carrier**, drill carrier, see gear carrier.

***cartman**, **cartman**; **wagon driver**; drives and attends to horse drawing tube of iron ore underground; cf. **carrier** (050).

changer and grather; **grather** and **changer**; keeps buckets and clacks (or valves) of old bucket type of pumping engine in order; changes buckets when necessary; *obsolescent*. *work now done by pump doctor q.v.*

charger, see shot firer.

company keeper; **acompanies** and **assists** day wage worker, e.g., **pumpman**, working alone in isolated districts.

***coupler**, tub coupler, see endless rope lad.

dattaler, **dattalman**, **dattaler**; **day labourer**, **day man**, **labourer onession**; general terms for all workers, above or below ground, receiving fixed time rate of wages, including haulage hands, shafters, labourers q.v.

day labourer, **dayman**, see **dattaler**.

dog whizzer; **superintends** work of pony drivers and *hookers*.

door boy, **door minder**, see **trapper**.

drawer; (i) see **trammer**; (ii) see **driver**.

drifter; makes drifts or roadways for purposes of exploration or of ventilation, by drilling or blasting; removes debris in a tub or track.

drill changer; or **driller**, q.v. who changes drills as required, when holes for blasting are bored by power drills.

drill charger; drills, by hand or machine, hole for blasting, and inserts charge; cf. **driller** and **shot-firer**.

driller, **drilling machine man**, **drill worker**; **machinist driller**, **machine drillman**, **machinist rock driller**, **rock drill man**, **rock drill worker**, **shot loader**; (i) drills holes for blasting with hand or machine drills (pneumatic, hydraulic, etc.); sometimes also bore down loose rock after shot is fired; (ii) may also drill or bore for exploration of strata, etc. see **bore**.

***driver**; **driver**, **horse boy**, **horse drawer**, **horse driver**, **horse leader**, **leader**, **pony driver**, **wagon driver**; a haulier q.v. who leads or drives ponies or horses which pull tube between face of workings and sidings, and also above ground.

drum sprayer, see **brakesman**.

***endless rope lad**; **coupler**, **tub coupler**; attaches and detaches tube or bogies to and from endless rope, at top or bottom of incline, at pass-bore, or at pit bottom.

engine plane and **siding attendant**; receives tube arriving along mechanical haulage road; takes them to siding, where they are attached to another haulage system, sent up shaft or otherwise moved.

fat lad, see **greaser**.

***filler**, **kibble filler**, or **filler**, **skip filler**, **stone filler**, **wagon filler**; **loader**, **mine loader**; fills kibbles, skips, tubs, trams or wagons with ore or refuse, by hand or with shovel, for conveyance away from working place.

fireman, see **shot firer**.

furman man; attends to ventilating furnace, placed near bottom of up-curtail, to maintain upward current of hot air, and thus ensure circulation; *obsolescent*.

gear carrier; **carrier**, **drill carrier**, **pick carrier**, **pick wheeler**; takes drills and picks to smithy for sharpening and brings them back to workmen when sharpened.

getter, **hewer**, **miner**, **stone hewer**; gets ore at underground working face by hand with hammer and wedge or by breaking down rock, already undercut by **hewer**, with pick and bar; in some mines may also drill ore, fire shot and load into tubs.

grather and changer, see **changer** and **grather**.

***greaser**; **fat lad**; greases tub and bogie axles and sheaves and drums guiding haulage ropes.

hanger-on, see **onsetter**.

***hauller**; general term for any person moving tube or wagon in mine; complex and uncomplex tube, if necessary; in particular denotes underground pony drivers.

helper-up; helps trammers q.v. in passing or hauling tube, tram, or bogies up dip or bank.

hewer, **stone hewer**, see **getter**.

hitcher, see **onsetter**.

holer; holes, or undercuts by means of a mechanical cutting machine, mineral to facilitate its getting; also removes material overlying or underlying bed of freestone in mine, using pick bar and shovel.

holing machine man; operates machine used for "holing," i.e. making opening or road for connecting one part of mine with another.

hooker-on, see **onsetter**.

***horse boy**, **horse drawer**, **horse driver**, see **driver**.

***horsekeeper**, **horseman**; **otter**; is in charge of horses and stables below or above ground; grooms and feeds horses and attends to the harness.

hurrier, see **trammer**.

***incline attendant**; (i) takes tube, tram, or bogie to and from self-acting (gravity) haulage incline; (ii) see **brakesman**.

***incline lad**, **incline man**; (i) see **brakesman**; (ii) controls switch points on rails at top or bottom of incline.

***labourer**; (i) see **miner's helper**; (ii) see **dattaler**.

landing lad; is employed at junctions or extremities of haulage system to couple or uncouple tube as they come on or go off rope.

***leader**, **horse leader**; (i) see **driver**; (ii) assists driver by leading horse hauling tube to and from working places.

***loader**, **mine loader**, see **filler**.

machine driller, **machine drillman**, **machine man**, see **driller**.

miner; (i) see **getter**; (ii) more generally used to denote any underground worker in a mine; usually specifically designated, e.g., **lead miner**, **blende miner**.

miner, **hand**; a **getter** q.v. getting mineral by hand, and not by machine.

miner's helper, **miner's labourer**, **labourer**, **pit labourer**, **underground labourer**; does work other than actually getting of ore, e.g. filling, trailing, tramming or putting, in working places, and assists **miner** generally.

onsetman, see **dattaler**.

onsetter; **bottomer**, **cage attendant**, **cager**, **engines**, **Amper-on**, **Aitcher**, **hooker-on**, **shaftfoot man**; stands at bottom of shaft to put full tube into cage and receive empty ones; also signals to winding engine-man for raising or lowering of cage by means of bell signals.

***ore dresser**; picks away foreign substances from hematite rock got at working place, to clean ore; breaks up and sorts ore below ground; cf. **dresser** (050).

***ore sampler**; takes samples of ore-bearing rock, crushes them and examines by visual and simple chemical means to ascertain percentage of metal contained in the ore.

***ore sorter**; sorts ore into different grades which has been cleaned and broken up by ore dresser; sometimes also does work of ore dresser q.v.

***otter**, see **horsekeeper**.

packer; **stoner**; picks away waste material in rocked-out places; also builds stone into columns, piers, or walls, for supporting roof or for preventing waste material from falling into haulage ways.

***pick carrier**, see **gear carrier**.

***picker**, **metal picker**, **ore** and **metal picker**, or **picker** and **trimmer**; picks over, and sometimes sieves, contents of tube, tram, or bogie, to estimate deductions in weight for dirt, stone (metal, etc.).

***pick wheeler**, see **gear carrier**.

pipeman; a pipe fitter (053) q.v. who carries out any necessary repairs or keeps in order pipes conveying compressed air or water to machines for drilling, etc.

pit boy; does any odd work in mine.

***pit labourer**, see **miner's helper**.

pitman; (i) see **shaftman**; (ii) see **pump doctor**.

pony driver, see **driver**.

powder monkey; weighs out and carries round charges of explosives required for drilling and keeps record of same.

***pump doctor**, **pumpman**, **pump mender**, **pumpman**; **pitman**; operates, i.e. starts and stops pump and pumping engine; keeps parts oiled and cleaned; makes necessary adjustments; also packs glands, overhauls valves, etc.

pumper, **hand**; works hand pump for draining working places.

putter, see **trammer**.

putter, **hand** or **pony**; a **trammer** q.v. who pushes tube by hand or draws with pony.

***rapper**, **ragger** lad, see **signal boy**.

ratchet machine man; a **driller** q.v. who uses hand drilling machine on ratchet principle.

repairer, see **shifter**.

***road cleaner**; scavenges under and above ground roads, and keeps them in good condition for traffic.

roadman, **road repairer**, **roadman**, see **wagonwayman**.

rock driller, **rock drill man**, **rock drill worker**, see **driller**.

***rockman**; examines face and brow of quarry to ensure that it is in safe condition for men working below.

relieveyman, see **wagonwayman**.

rope guider; guides, with hook, haulage rope as it passes on to drum.

rope lad; runs in and hooks on or picks off and runs out, tube, tram, or bogie on or from rope haulage system; cf. **landing lad**.

***ropeman**; **upficer**; examines and keeps in repair ropes used (chiefly for haulage purposes) in or about mine.

rope mender; in large mines, is responsible for the maintenance of ropes, splicing, re-socketing, splicing, etc. sometimes does work of rope guider q.v.

rope runner; accompanies set of tube on haulage road for purpose of attaching them to haulage rope or detaching them therefrom; guides rope round pulleys, guides tube round curves, etc.; cf. **bank rider**.

rattler; in Cornish, *conveyors* are along underground ways in wheellarrow.

sanitary man; attends to sanitary conveniences underground.

sett rider, see **bank rider**.

shaftfoot man, see **onsetter**.

shaftman; **pitman**; goes down the shaft daily on top of cage and carries out an examination of the sides of the shaft, guide ropes, lumps, pulleys, cages, etc.; carries out necessary repairs and makes a report daily to the engineer (050) q.v.

*shale man, shale picker, shale shifter; shale sorter; shale cleaner; a belt man *q.v.* who separates ore from worthless shale.
shifter, shifتمان, shifتمان; receiver; works at muzz, when mine workers are absent; repairing roadways, etc.; in lead mines see timberman; cf. packer.
shot bore, see driller.
shot firer; blaster, charger, fireman; charges hole, previously bored by power-drilling machine, with explosive, and fires it by lighting a fuse or by electricity.

*shunt lad; attends to coupling and uncoupling, and marshalling, of trains, tubs, or wagons, when they are hauled along levels underground by means of locomotives; in iron ore mines, attends to landing, or passing, on haulage road.
siding attendant, siding boy, siding minder; makes up sets of tubs, and couples haulage rope to them, attends to tubs as they come on or go off rope at junctions or sidings on haulage road; and controls movements of tubs in sidings generally.

*signal boy; runner, copper lad; a boy who acts as signalman *q.v.*
signalman; attends to signals used on haulage road or at shaft, by striking a rod with a piece of wood or metal or by pulling levers which cause the hammer of a bell to strike.
skip roadman; attends to transport of skips; keeps in order roads along which skips are hauled, and generally supervises haulage.

*sneck lifter; assists another *q.v.* by lifting cage snecks (or latches) when tubs, trams, or bogies are being put in or taken out of cage.
sneck shifter; in Scotland, moves points on tramway.

*special pump attendant; attends to special steam or compressed air pump, used for pumping water, and known as a "special" pump.
*splicer, see ropeman.
*spragger; sets up spraggs, or short props, to prevent falls of stone and ore, work usually done by getter.
stone cleaner, see shale man.

stone hawser, see getter.

stopper; a miner *q.v.* who works ore away in stone or "stopes," either by "sinking" (underhand stoping) or by "rising" (overhand stoping); work performed by blasting and drilling.
stower, see packer.

sumpman; cuts and sets timbers, supports, ladders, cribs, and chutes, in and about mine shaft; constructs pumps for water drainage, and timbers them.

*switchkeeper; attends to switch, or points, controlling movements of tubs, etc., at junctions of railways, etc.
syphon minder; watches level of water in sump holes from which water is being syphoned and closes syphon valve before water falls so low that air would be let into syphon pipe; usually has other duties in road or pump maintenance.

telephone lad; has charge of telephone exchange underground.
timber drawer; timberman; withdraws timber supports no longer needed in working face advance, or supports which have been broken.
timberer, timber setter, timber shifter; timberman, woodman; props up with timber, where necessary, roof and sides of traffic roads in mine; cf. deputy, lookybo (361).

timber leader; keeps miners supplied with props, planks, brattice, and crown trees, etc.
timber loader; loads trains with timber for use in mine.

timberman; shifter, shifتمان, shifتمان (lead mine); (i) see timberer; (ii) at Hadfield (Cumberland) denotes official who inspects workings to see that they are properly timbered; (iii) see timber drawer.
trailer; in Cumberland, see trammer.

*trimmer; bogie hand, bogier, bogie runner, bogie shover, driver, boggie putter, trailer (Cumberland), wagoner; conveyor tubs, trams, or bogies containing ore or rubbish along haulage roads to sidings or to shafts, and brings back empty trams, etc., to working places.

*tramway man; (i) (from mikes) keeps tubs or trams moving on tramway by pushing when necessary; (ii) (the mikes) keeps tramway, along which trams are drawn or pushed, clean and in repair.
trapper, trap door minder; door boy, stopper, trapper; is engaged in opening and shutting trapdoors in airways of mine, to allow horses, tubs, etc., to pass.

tributer; a getter *q.v.* who raises ore in certain area, for which he receives from owner certain proportion of value of ore raised.
tub worker, tub workman; a bargain man *q.v.* in iron mines, more particularly a bargain man engaged on smaller jobs; in copper mines, more particularly one engaged on development work, *e.g.*, sinking shafts or driving levels and crosscuts.

underground labourer, see miner's helper.
wagon driver; (i) see cartier; (ii) see driver.
wagoner; (i) see wagon hauler; (ii) see trammer.
wagon hauler; wagoner; hauls or pushes wagons.

wagonwayman; roadman, road repairer, roadman, railway-wagoner; attends to roads or planes along which wagons, tubs, bogies, or trams are hauled by mechanical power; carries out necessary repairs to rails, etc., fixes or refixes pulleys and keeps rollers in order.
water leader, water badger; removes water from workings, where quantity is too small to be worth pumping, by haling it into a tub and conveying it to a place in which it runs away by gravity; sometimes also takes or gets in a supply of drinking water for ponies.

wedger; breaks up ironstone, with wedges and hammer in ironstone quarries in a mine is usually done by miner *q.v.*

*windlass man; operates windlass (hand or power-driven) used for hoisting or hauling.
woodman, see timberer.

belt lad, see picker.
bogie cleaner, see tub cleaner.
breaker, see crusher.
bucker; breaks up ore, ready for sizers *q.v.*, with a buck, *i.e.*, a beak-headed hammer.

buckle attendant, buckle cleaner, boddie, boddler, boddler; operates and keeps clean buckle, usually a series of plane or inclined troughs, in which ore, after it has been crushed and finely ground, is refined or concentrated by allowing running water to wash out lighter and less valuable portions.

buckle wheeler; wheel concentrated ore out of "buckle" (see buckle attendant) in wheelbarrow.
burner; attends to burning house in which the ore is calcined.
tubbin boy, see change house keeper.

cage attendant, cager, see bankman; cf. assistant (054).
change house keeper, change house man, changing house keeper, changing house man; cabin boy, dry boy or man, dry house attendant, dry house boy or man; keeps in order house or dressing room where miners change their clothes; attends to fire and dries the clothes.

check-weighman; checks, on behalf of miners, weight of ore got, and deductions therefrom at weighbridge; is employed and paid by the workmen.
cobber; breaks ore into small pieces with small hammer, and sorts it according to value.
contractor, or for bargainsman (054).

copper ore spaller; breaks up copper ore with mallet into small pieces.
copper picker; separates different grades of copper ore by hand as crushed ore passes on a travelling "picking" belt.
count house boy, count house out (Cotswall); an errand boy in counting house or office.
count house keeper, count house maiden, count house woman; mine girl; cleans counting house, or office, cooks meals for officials, and washes clothes.

crusher, crusher attendant; breaker, miller, mill feeder, millstone, ore crusher attendant, rock breaker, rock crusher man, rock feeder, stone breaker minder, stone crusher attendant; throws or shovels lumps of ore into crushing mills; controls mills by levers and cleans and oiled bearings when necessary; for first or coarse crushing, heavy rock-breakers are used, followed by other breakers, with jaws set to crush somewhat finer; for next stage rolls of many tapes are used, and for still finer crushings, ball and tube mills.

day labourer; general term for unskilled workers employed at the day's payman; term sometimes used in tin mines for owner's account man (054) *q.v.*
delver; digger; does any unskilled work with pick and shovel.
digger, see delver.

dresser (copper); dresser, either by hand or by machinery, ore sent out from mine, rejecting waste material and selecting that which is valuable; if two or more valuable minerals are both present in same deposits, separates them; first process is generally sorting, by hand; ore is then dealt with by jigs, ransoms, revolving tables, etc.

dresser (gold); general term for all workers in lead dressing shed, including boddler, digger, sluiceman, tablamman, vanner *q.v.*
dresser, ore; (i) as for ore dresser (054); (ii) tin mines, see dressing floor labourer, dresser, tin floors labourer; general term for workers on dressing floor, engaged in crushing, spalling, or dressing tin or tin ore

056.—OTHER WORKERS ABOVE GROUND AND IN OPEN WORKINGS.

(NOTE.—In addition to the occupational terms contained in this section, see also those marked with an asterisk in code 054.)

amalgamator (gold); shovels crushed gold bearing quartz evenly over mercury lying in shallow cast iron pan, contents of which are agitated mechanically; removes quartz residues which are swept to the sides of the pan by rotating arm; removes amalgam when sufficiently high in gold content, to be filtered and distilled.

ashman; a surface labourer *q.v.* who wheels ashes from boilers to ash tip, or loads ashes into wagons.
bat girl, bat maiden; (domestic term); mine girl; denotes a girl employed on the dressing floor, as a dressing floor labourer *q.v.*

bark labourer, see surface labourer.
bankman, banker; cage attendant, cager, loader, top hand; removes ore or waste from top of shaft; takes wagons out of cage, and puts in empty ones; or, where no cage is used, hooks "kibbles" on to winding rope or takes them off; signals to winding engine-man.

bark weigher, see weighman.
batter, see soil remover.
battery attendant, battery waterer, battery worker, see stamp labourer.
belt cleaner; cleans, and keeps in running order, belt on which ore travels, to enable pickers to remove refuse therefrom.

dry boy or man, dry house attendant, or man, see change house keeper.

excavator; is in charge of machine for excavating material from quarry face.

framer; tin frame attendant; regulates supply of tin ore and water to frames or "buddles."

gear sorter; collects and sorts picks, drills, etc., for sharpening.

grate mill; general term for surface workers of mine.

grate holder; (i) holds small sieve and shakes to separate crushed ore according to size; (ii) see sifter.

halvannar; general term for men working on inferior copper ore.

ironstone borer; removes overburden (topsoil) from ironstone in quarry.

ironstone cleaner; (i) see ironstone napper; (ii) see metal picker (054).

ironstone napper; ironstone cleaner. trims or cleans waste dirt, etc., from ironstone lumps with pick and hammer.

jigger, jigman; controls by levers and generally attends to jig, i.e., water concentration machine used to separate larger portions of ore from rock, stones, etc., with which it is found; watches apparatus for efficient working; oils working parts and keeps them clean.

klieve man; see toiser.

knapper; (Yorkshire term); cleans shale from ironstone with a knapper, a small hammer and pick combined.

lamp cleaner, lampman; attends to safety lamps used underground, and is responsible for cleaning them, etc.

lander, see bankman.

machinist (tin stream); fits up, maintains and repairs machinery used for obtaining tin ore from alluvial soil in beds of stream.

magnetic separator; feeds crushed ore to happen of separating machine; controls machine and removes magnetic ore and waste, as separated, when necessary.

millier, mill feeder, millman, see crusher.

millman (tin mines); works in ore dressing mills or plants; sees that ore is properly crushed and then distributed to bins, tables, buddles, or other machines.

mina girl; (i) in Cornwall, see bal girl; (ii) see count house keeper.

ore cleaner, see for picker, metal (054).

ore crusher attendant, see crusher.

ore washer; (i) (tin mines); see dressing floors labourer; (ii) (iron mines), see picker, klieve.

owner's account man, owner's count man (Cornwall); general terms for day workers working in owner's interest as distinct from contractor's, and paid direct by owner.

owner's account man (iron mines); weighs full tubs, trams, or bogies sent out by miners, weights of each tub being credited to miner who has sent it out.

picker, klieve; ore washer; fills with shovel and attends to bins or klieve, i.e., a washing tub in which crushed ore is stirred in water by mechanical means and allowed to settle.

picker, left lad; picks over ore as it passes over screen or table on travelling picking belt to remove stone, dirt or other impurities.

quarryman; gets mineral from quarry as distinguished from mine; otherwise similar to miner (054) q.v.

raceman; keeps up water-race in repair, i.e., channel conveying water to water wheel or turbine.

radium miner; general term for getter and other workers in mine producing ores containing radium.

refiner, see sampler.

rock breaker, rock crusher man, rock feeder, see crusher.

sample crusher; pulverizes average sample of ore with flat-headed hammer, ready for sampler q.v.

sampler, sample refiner, sample taker (Cornwall); refiner; selects average sample of ore, from which assay or analysis may be made, to determine character and value of material.

scraper, screener, grade holder; passes crushed iron-stone over screens or sieves, either fixed or movable, to extract iron ore dust.

slimman; general term for worker dealing with "slimes," i.e., finely crushed lead ore mixed with water in dressing operations, including tableman, tranker, vanner, and (in Scotland) buddler q.v.

soil remover; borer; removes topsoil or rubble from above ore.

sorter; picks out higher grade lumps of ore as they travel past on endless belt.

sorter (copper ore); sorts or picks out copper ore mingled with tin ore sent to surface.

sorter, pitchblende; sorts out from pitchblende ore lumps containing pitchblende in sufficient quantity to warrant further treatment, for extraction of uranium and radium compounds.

splitter; breaks ore into small pieces, with mallet.

stamper, stampman, stampman; crushes ore with heavy "stamps," or pestles raised by water or steam, or pushed by gravity; watches efficient working of apparatus, supervises stamp labourers, and signals to stamping engine driver q.v.

stamp floor dresser, see dressing floors labourer.

stamp labourer, stamp attendant, stamp washer, battery attendant, battery washer, battery worker; attends to chutes through which ore is run into stamps; regulates rate at which ore is so run.

stone breaker minder, see crusher.

stone crusher attendant, see crusher.

streamer, tin; takes from washing stream (natural), at convenient settling points, tin ore which has settled to bottom of water.

streamer, wolfram; impounds mineral washed down stream from waste of mills attached to wolfram mines, and recovers additional wolfram therefrom, for more exact practice, see magnetic separator.

surface hand; top hand; general term for man or boy employed at surface of mine.

surface labourer, bank labourer, pond labourer; an unskilled workman at surface of mine or quarry, engaged in wheeling ash, discharging timber, grease, oil, etc.

tableman, table washer; shovels powdered lead ore mixed with sand on to "Wulley" for concentrating table and controls it whilst in operation; removes concentrated ore and depleted sand.

tin cleaner, see toiser.

tin floor labourer, see dressing floors labourer.

tin frame attendant, see framer.

tin stream labourer; does unskilled work in or about tin stream.

tin stream worker; removes heavy alluvial deposits and generally attends to tin stream.

tipper; operates lever which tips tub to empty them of mineral, stone, shale, etc., on bank or tip; sometimes specifically designated according to contents of tub, e.g., stone tipper, sulphur tipper.

token lad; takes tokens off tubs when sent up to surface (tokens are pieces of metal or leather stamped with miner's or putter's number or mark, and filling or pitting).

top hand; (i) see surface hand; (ii) see bankman.

toiser, tozar; klieve man, tin cleaner; lowers or shakes pulverized tin ore into water in "klieve," or vat, tin ore being heavy, sinks to bottom, while refuse rises to top.

trunker; trims ore on railway wagons to prevent loss in transport.

truck filler; loads wagons with ore at surface.

trunker; separates slimes from ore by running mixture into end of a long box, leader or tank.

tub cleaner, bogy cleaner; cleans tubs, trams, or bogies in which stone or ore is transported.

vanner; leads and tends machinery of vanner machine, used for concentration of metal ore, i.e., for sinking out portions of heavy metal bearing ore from lighter rock after it has been crushed; sometimes specifically designated according to type of machine used, e.g., true vanner.

wagon coupler; couples wagons together at surface of iron mine; usually also uncouples wagons and assists shunter (704) q.v.

wagon filler; fills wagons with ore, etc., in quarry.

wagon loader; loads wagons with ore, shale, etc., at pit head.

wagon pusher; pushes wagons in quarry.

wagon tipper; tips wagons on surface, washer, ore washer; general terms for any worker who attends to machinery for washing ore, e.g., lead ore to remove impurities, including jigger and buddler q.v.

waterman, as for water leader (054).

weighbridge attendant, weighbridge man; weighs ore as it passes over weighbridge; sometimes also keeps record of wagons sent out and labels them to destination.

weigh lad; weighs ore at surface of mine or quarry.

weighman; bank weigher; (i) weighs full tubs or wagons on weighing machine, weight of each tub being credited to miner who has sent it out; (ii) weighs and despatches loaded railway wagons.

whim driver, drives "whim," a horse-driven capstan for raising ore or water from mine.

woodman; prepares, on surface, timber used for support of roof and sides of workings, and sends it into mine.

yard labourer, see surface labourer.

Sub-Order 3.—In Other Mines and Quarries.

070.—OWNERS, AGENTS, MANAGERS.

agent, mine agent; manager, mine manager, quarry manager, under, quarry master, steward, in complete control of technical and commercial affairs of mine or quarry pit, or working and is responsible to directors or owner alone for observance of Acts of Parliament and of regulations made thereunder, for safety and discipline of men and boys employed and for maintaining output.

agent, works; an agent q.v. who controls the operative or technical affairs only of a quarry, etc.

base, mine base; along terms for captain or manager q.v.

captain, mine captain (owner's representative); a foreman (071) q.v. endowed with fuller powers of control as owner's representative or agent q.v.; usually in small workings.

manager, mine manager, quarry manager; (i) see agent; (ii) in some districts, does work of *cf.* foreman (071); (iii) in Devon and Cornwall is responsible official in charge of on-site operations and superior to agent, owner; (iv) see agent.

manager, traffic; in charge of all means of conveyance in or about mine or quarry.

master, quarry master; (i) see owner; (ii) see agent.

owner, mine owner, quarry owner; master, quarry master; a person who, or member of a body corporate which, is the immediate proprietor or lessee of a mine or quarry, or of any part thereof.

steward, see agent.

071.—SUBORDINATE SUPERINTENDING STAFF (including Inspectors, Contractors and Foremen).

assistant agent; (i) see deputy; (ii) see foreman.

boss, shift boss (slang), see foreman.

captain (clay), clay captain, see foreman.

captain (stone quarry); in Devon and Cornwall; (i) cf. manager (070), (ii) see foreman.

chargehand, see foreman.

deputy; assistant agent; assists manager (070) g.v. acts in his absence; enforces compliance of Acts of Parliament, and special rules passed thereunder.

examiner; inspector; makes daily inspections of working places, overburdens, paths, roads, etc.; takes steps to ensure safe and efficient working; work often performed by manager or agent (070) g.v. examiner (slate, stone, etc.), see inspector (slate, stone, etc.).

fireman (blasting); legal title of deputy g.v. holds certificate to fire shots; cf. blaster (072).

foreman, mine foreman, quarry foreman; assistant agent, captain, chargehand, chip captain, ganger, overlooker, driver; also slang names: "boss," "gaffer," "John," "Gowman," shift boss, (i) superintends underground work of gang or set of workmen; (ii) is responsible for statutory duties under Acts of Parliament, where there is no deputy.

foreman (blasting); is in charge of drillers and firemen (072) g.v.; determines kind and quantity of explosive used and supervises its distribution.

foreman, rock; foreman of miners; directs work of quarries (072) g.v. to obtain best possible output of stone, etc., from quarry face.

gaffer (slang), see foreman.

ganger; (i) see foreman; (ii) is in charge of a set of workmen.

inspector, see examiner.

inspector (slate, stone, etc.); slate or stone examiner; examines slate or stone after dressing for damage or defects; checks output of dressers.

inspector, quarry; usually a pit-captain (471) g.v., who inspects wagons and keeps them in repair.

Johnny Gowman (slang), see foreman.

overlooker, examiner; see foreman; cf. agent (070).

sub-contractor; contracts with quarry owner or agent to pit stone, etc., at fixed rate; employs and pays his own assistants; is usually himself a quarryier (072) g.v.

072.—STONE MINERS, QUARRIERS,

banker, see brakeman.

banker hand; (i) see scabbler; (ii) dresses stone to put a finish on blocks after they have been roughly shaped by scabbler.

bank rider; bogie man, bogie rider, journey rider, rope runner, runner, run rider, sett rider, wagoner, wagon son; rides or accompanies trains of tubs or wagons containing stone; attaches and detaches ropes to set from tubs or wagons where required.

bankman; (i) see brakeman; (ii) see stageman.

barrer, stone barrer; burden man, excavator, felpier, muckman, muck, siddler, loader, stripper, tierer, top barer, top drier; removes over-burden (top-soil) with pick and shovel (hand or pneumatic), where over-burden is heavy or tenacious, explosive is sometimes used, or the over-burden is removed by channelling and piling.

blaster; blaster, shot-fire, shotman, shotman; blows down or out, or reads open, with explosive, the stone face; seen to drying of shot hole, inserts charge, tamps it up and fires it (with electric battery or safety fuse), often necessary to fire a series or range of shots simultaneously or after each other; by similar, but smaller, operations, breaks up larger boulders of rock which have been

from rock-face; cf. fireman (071); in granite quarries these boulders are never fired, but are split, see plug and feather man.

block chopper; stone cutter; (i) in Yorkshire cuts stone into smaller pieces with wedges, after it has been hewn from quarry face; (ii) see scabbler.

block cutter, blockier, blockman; cutter, stone cutter; breaks stone with heavy hammer (mallet) into rough blocks roughly a foot cube, ready for further cutting into 4 or 5 sections; in some quarries this work is done by settmaker (075) g.v.

bogie man, bogie rider, see bank rider.

borer, machine borer; (i) see driller; (ii) see rock borer.

bottom deliver; bottom getter; a deliver g.v. who works on lowest "bench" (step, tier or level), where quarry is worked in "benches."

bottomer; (i) makes holes with pick under large blocks of stone for insertion of wedges, (ii) hitcher; is quarryier attaches rope to wagon at bottom of incline, and signals to engine-man; (iii) in mines pushes filled trucks on to cage at shaft bottom, and winds stone up to surface; signals to winding engine-man; draws out empty wagons on descent of cage.

bottom getter, see bottom deliver.

breakman, brakeman, breakman; breaker, brakeman, shunter, framer, wagon breaker; (i) on inclined planes, controls speed of wagons by hand brake, or by drum-brake at top of incline; sometimes also hauls stone at top of quarry; supervises the men at the end of the detaching tubs to the ropes at landing end; (ii) has charge of engine for raising and lowering quarriesmen and stone; (iii) in large quarries assists engine-man in moving large wagons.

breaker and filler; a sledge g.v. who breaks up stone after blasting, with a large hammer and loads it into tubs for removal; cf. filler.

breaker (hand), stone breaker; crocker, junker, longer, maffer, maffer, meller, stageman, rubbier; breaks up stone with small hammer.

breaker (machine), stone breaker (machine), see crusher driver.

burden man; (ornish term, see barer).

butty, see cabin boy.

cabin boy; butty, little boy; looks after workmen's cabin; cleans mess room; boils water for men's meals; sometimes also carries tools; cf. tool boy.

carter, cartman, see horse driver.

causewayman, causeyman; (i) where quarries are worked in steps, keeps travelling way on each step clear; (ii) see roadman.

chain man; (i) examines chains for weak links, and keeps them in good condition; (ii) see slinger.

channeler; (i) operates machine which cuts channel in stone; (ii) cuts channel in stone, by hand, using hand tools.

charger, see blaster.

cleanser; roughly cleans stone, with sick when first it comes out of quarry.

contractor (existing stone); a quarryier g.v. who undertakes stone setting in a mine or quarry on contract; pays men working under him.

conveyor attendant; operates "conveyor" (belting which carries stone from place to place in quarry); controls conveyor by means of hand levers and looks after its running.

crocker, see breaker (hand).

crateman, see stageman.

crusher, stone crusher, see crusher feeder.

crusher driver; breaker (machine), crusher man, stone breaker (machine); controls stone-crushing machine by operating various levers; oils and greases working parts and looks after its running.

crusher feeder; crusher, crusher man, feeder, small breaker, small feeder, stone crusher; feeds revolving machine with broken stone, regulating

the supply of stone by means of trap door which is operated by hand levers.

crusher man; (i) see crusher driver; (ii) see crusher feeder.

cutter; (i) see hewer; (ii) see block cutter; (iii) see plug and feather man.

cutter-up, see flagstone cutter.

dayman; journeyman; a labourer g.v. paid time rate of wages.

dolph labourer; muck, quarry labourer; loads and unloads wagons, helps in repair of quarry roads and cuts out (iii) see plug and feather man; deliver; stone getter; loosens and gets blocks of stone from solid rock by various tools, when it has been blasted down, may also split blocks of stone with hand tools to reduce to convenient size.

deliver's labourer; assists deliver g.v. in getting stone and in loading it into trains.

digger, see quarryier.

dimension quarryman, see scabbler.

dredger; separates inferior stone from the bedrock.

dresser; dresser; face dresser; removes loose stone, etc., from face of quarry with pick and shovel; sometimes done by driller or miner g.v.

drift maker, see heading driver.

drill carrier, see tool boy.

drill driver, see driller (hand or machine).

driller (hand or machine), rock driller, rock drill man; barer, drill driver, drill runner, machine barer, rock barer, rock cutter; drills holes for blasting, for trawl borings, or for "plug and feather" (see plug and feather man) with hand or machine drills; sometimes also haws down loose rock after shot has been fired; cf. quarryier.

driller, electrical; a driller g.v. who operates an electrically-driven drilling machine in a stone quarry.

driller's attendant, see tool boy.

excavator, see barer.

face dresser, see dresser-down.

feeder, see crusher feeder.

fettler; fettler; does slight repairs to plant and machinery.

filler, rock filler; loader; loads stone by hand into wagons or boxes for removal from quarry face by another part of quarry; work may be performed by quarryier g.v.

fireman (blasting), see blaster.

fitter, see fettler.

flagstone cutter; cutter-up; cuts and cleaves flag rock, with picks, wedges, and spalling hammers, in readiness for flag dresser (075) g.v.

getter, rock getter; (i) see quarryier; (ii) see hewer; sometimes specifically designated, e.g. alabaster getter.

haulier, getter, blue rock getter.

getter (odd maker); works on face of rock in quarry, preparing it for setting up of large percussion drill; has a rope round him to protect him from falling; work sometimes done by miner or driller g.v.

getter, stone, see deliver.

greaser, see machine oiler.

hanger-on, see slinger.

haulier, see horse driver.

heading driver; drift maker; drives headings at foot of rock face, and puts in large charge of explosive; (i) rougher dresser stone with hammer pick after it has been loosened by blasting; (ii) see quarryier.

hitcher, see bottomer.

horse driver; barer, cartman, haulier, horse keeper, pony driver, horseman, wagoner, wagonman; drives horses about quarries; often also greases and feeds the horses and keeps horse feeder; feeds and grooms horses under supervision of horse keeper g.v.

horse keeper; cutter; (i) see horse driver; (ii) in charge of stables, supervises horse feeder and horse driver g.v. and attends to harness.

journeyman, see dayman.

journey rider, see bank rider.

drum man, see brakeman.

filter; loader, packer; loads slate into wagons or boxes for removal, or for conveyance to another part of quarry; work usually done by slate miner *q.v.* getter, slate getter, see quarrier. gleaner, see rubber.

hauler, see horse driver.

hoister; in slate mines or quarries, a brakeman *q.v.* who operates machinery which hoists slate from mine or quarry.

horse driver, horseman; carrier, carrier, hauler, driver, horse driver; quarries drawing tram wagons and cutting material where necessary; often also grows and feeds them. incline brakeman, incline driver, incline man; transporter. (1) see brakeman; (2) in very small quarries, may also push wagons to and from brow or bottom of incline. journeyman, see dresser.

labourer; does odd work in or about quarry; clears rubbish, unloads slate, etc.

lander; lands wagons or skips loaded with rock or slate on landing tables at quarry bank, or at end of aerial incline, and pushes wagons or skips from landing tables to haulage way.

loader, see filter.

machiner, see weigher.

marker, see counter.

miner, quarry miner, slate miner, see quarrier.

packer, see filter.

pumpman; oils and greases pumps in use at quarries, controls pump by operating various levers and keeps a watchful eye to see that water is coming through.

quarrier, quarryman, slate quarrier; getter, slate getter, miner, quarry miner, rockman, slate miner; drills the face of slate with hand or mechanical drills, taps up holes, then drilled and fires shot by means of time fuse, substitutes good slate rock for sending out to slate makers the refuse being removed by labourer *q.v.*

roadman; in mines, makes and repairs underground haulage roads; looks after supplies of timber or propwood, and clears away rock fallen from roof; in quarries, keeps roads and tram rails in repair and lays down new rails where necessary.

rock driller; drills holes for blasting, or for trial borings in the igneous rock with which slate is interbedded.

rockman, see quarrier.

rock quarrier; top rockman; in slate mines or quarries, drills, blasts and removes with explosive, beds of volcanic rocks overlying and underinterbedded with, or cutting through, slate beds.

rubberman, rubber man, see clearer. rubbish unloader, see tipman.

rubber; gleaner; usually as apprentice, or on loan not himself capable of taking "bargain" letter; is given blocks, to make into slates, as remuneration.

shaftman; a pumpman *q.v.* working at shaft used for raising water in mine or quarry, or for ventilation mine.

smasher; a labourer *q.v.* who breaks up worthless slate or stone with sledge hammer, and loads it into trucks for tipping.

stone cutter (setting slate), as for stone cutter (072).

striker; in slate mines and quarries, strikes top of drill with heavy hammer when drilling "double-band," *i.e.*, when another man turns drill, shaftless method.

timberman; props up roof and sides of roads with timber in underground slate mines.

tipman, tipper; rubbish unloader; tips rubbish over the spoil heap, makes the tip or heap and keeps it in order.

top rockman, see rock quarrier.

transporter, see incline brakeman.

trimmer, see dresser.

weigher, weighbridge man; workman; weighs slate or waste as it passes over weighbridge.

074.—CLAY, SAND, GRAVEL-PIT WORKERS.

bankman (clay, marl), as for bankman (072).

barer; burden man, burthenman (china clay) carrier, callowman, loader, napper, napping shifter, barer, topping shifter, unloader; as for barer (072).

bottomer; banger-on, lifter; as for bottomer (quarry) (072).

braker; pigger, pinner boy, wheel boy, wheeler; as for brakeman (072).

braker (china clay), marl breaker; breaks clay up into small pieces and loads them into circular tank to be mixed with water, forming creamy mixture called "slurry."

burden man, burthen man (china clay), see barer.

callower, callowman, see barer. chalk transporter; breaks down large quantities of chalk from quarry face by blasting.

clayman; gets out from sides of pit, clay and sand, which is then washed to bottom of pit by stream of water. clay worker; most worker; a quarrier *q.v.* getting clay.

craftman, see riddler.

crusher attendant, crusher feeder; suit attendant, panman; feeds and attends to crushing machine in which large pieces of chalk, clay, etc., are broken up.

cutler (clay marl), see quarrier.

digger (china, clay, flint, marl, gravel, digger, sand digger; excavator, excavator; digs chalk, clay, flint, sand or gravel, with pick and shovel, digger (coprolite); (3) digs "coprolite," *i.e.*, fecalised excrement of animals (usually mammals and fishes), which is ground up for use as manure; sometimes also loads it into barrows, etc.; (4) a man prospecting for "coprolite."

digger (flint); digs for fossils in chalk, etc., with pick and shovel.

drawer, see transporter.

dresser, clay dresser; (1) adds water to clay, etc., making creamy paste or "slurry," which is then run off and allowed to settle in "steeps" or "convers," the heavier impurities being left behind; (2) picks out impurities from material without making "slurry;" see sorter. (3) inspects working places and travelling roads and makes them ready for workers.

driver, drover, horse driver, pony driver, as for horse driver (072).

excavator, see digger (chalk, clay, flint, marl).

faceman, see quarrier.

fat boy, fat lad; greaser, slipper, wheel boy; greases axles of wagons, and does general odd jobs in quarries.

feather, see barer.

filler, chalk filler, clay filler; loader; as for filler (072).

flint boy, flint picker; removes top flint from loaded chalk wagons.

fossil breaker; sorts fossils taken out of mines, pits or quarries according to kinds.

gaulter; digs "gault," a kind of marl, at foot of chalk strata with pick and shovel and loads into trucks.

getter (china, marl, etc.) see quarrier.

getter (fuller's earth); (1) (open quarry) digs fullers earth by hand, *i.e.*, with pick and shovel, for use in cosmetics, etc.; (2) (miner) mines (fuller's earth); picks out fuller's earth or stone from overlying strata of coal seam with pick and bar; shovels into tubs for conveyance to crushing machinery; used for dusting mine to render coal dust less inflammable.

gravel dredger; gets gravel from river or sea bed by "pacer" mining method or by alluvial mining, generally with a digging line of buckets, worked by steam engine.

greaser, see fat boy.

grinder; (1) (china clay) lines pan of grinding machine with small pieces (pavers) of china stone, which have been broken up by ore crusher, and fuses other large blocks (runners) to

revolving arms, sets machine in motion, and empties material when ground to powder. (2) (quarry sand) controls level of grinding machine for grinding sandstone, gravel or other stone or clay; shovels and throws sand and lumps into feed hopper, when this is not automatically fed by chute or conveyor. banger-on, see bottomer.

hauler, see transporter.

hatcher, see bottomer.

holder, see quarrier.

knott, knott boy; see breaker.

knott hole man; Northamptonshire, Cambridgeshire, and Huntingdonshire term for clay, quarry or pit worker *q.v.*

labourer (ballast pit); digs sand or gravel for ballast with pick and shovel, loads it into trucks, etc., washes material to remove impurities; sometimes also sifts or screens it.

labourer (clay, marl, sand); general term for any unskilled worker employed in or about pit, mine, or quarry, loading, digging, wheeling, etc.

loader, see filter.

lyncher, see digger.

marl worker, see clay worker.

mill attendant, see crusher attendant.

miner, see quarrier.

mineral digger; gets fireclay from coal or fireclay mines in manner similar to coal mining, see barer (042), coal cutting machine driver (042); blows down with explosive, picks and burns down, cuts by machine, etc., at circumstances; fireclay occurs interstratified with coal.

miner (fuller's earth), see getter (fuller's earth).

miner's mate; gets material out after miner or gets *q.v.* has won it, *i.e.*, lifts, throws or gets material into trucks, pushes trucks to siding, may split large blocks or lumps with wedge and hammer.

napper, napping shifter, see barer.

picker, see fat boy.

pumpman, see crusher attendant.

picker, dirt picker, picker on bank, see sorter.

pitman; shaftman; attends to pumps by which sink clay in suspension in water is pumped up from pits or quarries; also attends to shafts by which clay is pumped; keeps valves of pumps clear and in good order.

pit worker, see quarry worker.

pumper, pump attendant, pumpman, as for pumpman (072).

putter, see transporter.

quarrier; cutter, faceman, getter, loader, holder, miner, quarryman; gets material from pit, quarry, face by pick and shovel, or by blasting. If explosive is used, gets hole, sets charge and, after explosion, brings down loosened material with picks, sometimes also loads into trucks.

quarrier (china clay); removes top-soil ("overburden") with pick and shovel, and washes out china clay by letting streams of water flow down face of quarry, producing solution of milky consistency.

quarrier (china stone); gets china stone by hand with pick and shovel, or by blasting.

quarryman; (1) see quarrier; (2) see quarry worker.

quarry worker; pit worker, quarryman; gets material for work employed as getter, labourer *q.v.* or in any other capacity in clay, marl or other pits.

riddler; crutcher, screener, screener; riddles, or sifts, sand or gravel by shovelling it against fine-meshed sloping sieve, sometimes called a "grizzly" to separate gravel, clay, stones and other coarse material; sometimes further designated "sieve" or "sifter," *i.e.*, *q.v.*

runner-out; runs trains or wagons from quarry face to bottom of incline.

and man (china clay pit); digs out sand which settles at bottom of "slurry" tanks and barrels into barrows; wheels barrows to tip. screener, screenerman, *see* riddler. selector, *see* sorter.

shaftman, *see* pitman. shaver-out (clay, mail); removes overburden waste, picks and shovels; drives in crow bar or wedge and shears out face of mail or clay quarry, to be shovelled away.

sorter, sorter on bank; dirt picker, picker, picks on bank, selector; examines clay, especially at bottom, as it comes from pit or quarry and picks out impurities, such as stones, nodules of iron pyrites, pieces of wood, etc. *cf.* clay dresser. tipper; operates tipping lever to tip contents of wagons, tubs, bogies, etc., at crusher house, railway trucks, dump, etc.

tirrer, *see* hauler. topping shifter, *see* loader. tramway; *driver*, haulier, *putter*; *as* for trammer (572).

unclawer, *see* harve. washer (general); cleans gravel by washing, usually in machine; shovels trash into machine, when gravel is not fed by hopper or conveyor; controls water supply and operates machine.

washer (slopes); washes china clay out of vein in pit by dredging clay with water so that a "slurry" or paste is produced, which can be pumped or run into settling tanks.

wheel boy; (i) *see* fat boy; (ii) wheels clay in barrows, etc.; (iii) *see* hauler.

wheeler, *see* breaker.

078.—WORKERS IN OTHER MINES AND QUARRIES NOT ELSEWHERE SPECIFIED.

alum clay worker; gets, or mines, clay shale used in manufacture of alum.

blaster (barites, rock salt, etc.), *as* for blaster (554).

blower (gypsum or plaster); a gypsum miner *q.v.* who drills holes (usually with hand auger), charges and fires them, and often wards up rock loosened by explosion; frequently also charges of small gang of miners; *cf.* quarryer (572).

hogie runner, beggie, *as* for trammer (554).

borer, rock salt, *see* drillier.

brake lad; incline lad; tends self-acting incline, *cf.* a tramway worked by gravity, on which descending full tubs or trams draw up empty ones.

cutler, *see* getter.

delver (barites mine), *as* for delver (556).

digger, *see* quarryer.

dresser (barites mine); dries barites, and grinds it, either between several pairs of revolving burr stones, or in a pulverizing mill; sorts it by floating in water, so that finer coarser particles settle, while finer remain in suspension; dries by steam-heated, and packs in barrels for despatch.

dresser, gypsum; picks over gypsum, after it has been quarried, with a pick, to remove foreign substances; sorts gypsum according to quality.

driller (barites, rock salt, etc.); rock salt borer; *as* for drillier (547).

farrier, rock salt; fills loose rock salt into trucks and conveys it to shaft for winding.

filler, *see* hauler.

ganister delver, ganister getter, ganister quarryer, ganister rock getter, *see* miner.

getter, *delver*, rock salt roger; works at rock face "petting" mineral, *e.g.*, rock salt, barites, etc., in a mine or quarry, by hoeing, drilling or blasting, *cf.* miner.

lower (barites mine), (i) *as* for lower (553), (ii) *see* picker.

incliner lad, *see* brake lad. loader; filler, rock salt leftman; *as* for filler (572).

leftman, rock salt; Irish term, *see* loader.

lycher; a getter *q.v.* in rock salt mining.

millier (barites mine); tends grinding plant which reduces barites to fine powder.

miner; *delviter delver*, *ganister getter*, *ganister quarryer*, *ganister rock getter*, *gypsum rockman*; *as* for quarryer (572); sometimes specifically designated according to substance mined, *e.g.*, alum miner.

another name: barites (bank) miner, ganister miner, gypsum miner, ochre miner, quartz miner, rock salt miner, spar miner.

mine worker; general term for any worker in or about mine, such as alum, barites, barites, calumene, feldspar, fluor spar, jet, malinite, ochre, plaster or gypsum, quartz mines.

navvymen, steam navvymen; assists steam heavy driver (555) *q.v.* in excavation work in quarries of gypsum, insulators, etc., directing operations by signals.

picker, rock salt; works underground, sorting out various qualities of rock salt.

pit-boy, pit labourer; does any unskilled work in pit or quarry, *e.g.*, signalling to engine-men, pushing tracks, cleaning and sweeping roadways, loading trucks.

pit worker; general term for any person employed in quarry or pit, including digger, getter, filler, loader, hauler.

putter, *as* for bogie (554).

quarrier, quarryman; digger; *as* for quarryer (574).

quarry worker; general term for all persons employed in quarries.

roadman; lays and repairs roads in mines and quarries, sometimes also lays rails; *cf.* platelayer (577).

rockman, gypsum, *see* miner.

roofer, rock salt, *see* getter.

shaftman, rock salt; is responsible for maintenance of shafts in salt mine.

striker, rock salt; detaches tubs of rock salt from haulage chain when they reach surface.

stromton digger, stromtonite digger, stromtonite quarryman; a quarryman *q.v.* digging or blasting for stromtonite.

stromton pit worker; general term for any person employed in a stromton mine or quarry.

Sub-Order 4.—At Oil Wells and Brine Wells.

079.—PUMPS AND LABOURERS.

pipeman, brine pipeman; maintains pipe lines conveying brine from wells to filter beds and reservoir in good condition, lays down new lines as required, usually also does work of pumpers.

pumper, brine pumper; attends and works pumping machinery which extracts brine from brine wells and pumps it along pipe lines to filter beds or reservoir.

pumpman (oil wells); attends and drives pumping machinery conveying oil from bore hole by pipe lines to refining tanks; usually maintains "dope" lines in good condition; *cf.* haulier (580).

shaftman, shaftsman, brine shaftsman; maintains shaft to salt beds in good repair; descends shaft to attend to brine pipes when necessary on account of choking substances, etc.; *cf.* wellman.

wellman (brine wells); is responsible for the brine and brine pipes leading to filter beds and reservoir, is also has charge of pumping machinery.

superior work of pipeman, pumper and shaftsman *q.v.* in large salt works; may also operate drilling machinery to bore fresh boreholes or wells to salt beds; *cf.* drillier (brine wells) (580).

wellman (oil wells), oil wellman; general term for all workers at oil wells including those attending pipe lines, pumping machinery, raising tanks, etc.

ORDER IV.—WORKERS IN THE TREATMENT OF NON-METALLIFEROUS MINE AND QUARRY PRODUCTS (excluding Workers in Gas Works).

Sub Order 1.—Makers of Coke and By-Products (excluding Tar Distilling).

081.—FOREMEN AND OVER-LOOKERS.

coke inspector; inspects cokes to ensure that it has been sufficiently quenched to be safely removed from bench, for loading, etc.

coker; a foreman *q.v.* in charge of coking process from time when coal is charged into oven until it comes out as coke; decides when process is complete; *cf.* coker (568).

foreman, oven foreman; *softer*, *gunner*, *overlooker*; is in charge, under supervision of manager or chemist, of a battery of coke ovens or certain processes carried on at coke works; controls men engaged in such processes as coal handling, screening, crushing, sifting, quenching and stacking; directs charging and discharging of ovens and oversees general control.

getter, *getter*, *see* foreman.

overlooker, *see* foreman.

washery foreman; a *ganget* or foreman *q.v.* in charge of washery department, sees to the sifting and greasing of the various parts and is responsible for the supply of coal and water through the washery.

088.—OTHER SKILLED WORKERS.

burner, breeze burner, elinder burner, coke burner, gland burner; *esker*; superintends coking of crushed coal in "beds" or coke ovens; directs work of loader, doorman and drawer (569) *q.v.*; obsolete.

charger, charger man, oven charger; coke oven top man, *esker*; controls power-driven coal charging machine for charging coke ovens, by operating various electrical controls; *cf.* coke oven loader (569).

coke oven top man, *see* charger; *cf.* coke oven top man (569).

coker, *see* burner; *cf.* coker (561).

compressor man; *stumper*, *stumper* man; operates, by hand, machine which compresses charge of partially dried coal into a solid cake, ready for delivery into oven by charging machine. *see* charger; regulates supply of coal coating down chute from bunker to compressor by means of trap door.

discharger, *see* ram engine man.

gas main man, *see* valveman.

gas regulator; regulates supply of gas and air for heating oven walls of coke oven plant, by opening various valves; reverses valves periodically so that air inlet flow may be heated by exhaust gases; oils and cleans valves, and generally keeps them in working order.

machine man; general term for any worker engaged on a machine used for charging or discharging coke ovens, including charger, compressor man, electric ram driver, ram engine man *q.v.*

pusher, *see* ram engine man.

ram driver, electric; a ram engine man *q.v.* who operates, by means of various levers, an electric ram or discharging machine.

ram engine man, ram man; *see* charger, jacker; operates, by lever, machine (electric or other) which travels along the front of coke oven and forces red-hot coke from oven with a mechanically driven ram; ram is sometimes fitted to compressing machine or stamp mill, and often includes a coal levelling tool, or is adapted for charging as well as discharging.

stamper, stamper man, *see* compressor man.

stoker, *see* charger.

valve-man (coke oven); gas valve man; works hydraulic means, controls valves which shut off gases from gas mains while they are being charged and discharged ("pushed"); cleans out suction pipes and lines, by hand, using various tools.

090.-OTHER WORKERS.

belt man, *see* conveyor man.

benchman; general term for any labourer who works at coke bench, drawing, quenching and forking coke after it is drawn from retorts and deposited on bench; includes coke filler, hearth man, quencher, *q.v.*

breeze man, breeze oven labourer (by-product oven); breeze filler; cleans up breeze of small coke, on coke bench by hand, using shovel and sometimes brush, and loads it into railway wagons, or wheels it to breeze dump; *cf.* filler, coke.

bunker-man; in charge of bunkers at coke ovens where coal is stored, after it has been washed, to allow gases mixture to draw off, before coking process begins; operates slides and doors admitting coal into bunker compartments, and is in charge of crushed coal elevator, and of scrapers or conveyors.

carman; haulage man; operates motor for moving "cars" or wagons of quenched coke from coke ovens to stacker.

chucker, coke, *see* filler, coke.

coal crusher, coal grinder; tends coal crushing machines in which coal is crushed, either before or after washing, to a size suitable for treatment by stamper-man *q.v.* prior to loading into coke ovens.

coke and by-product man, coke oven man; *coke*; general terms for any worker employed on any process in or about a coke oven or by-product plant.

coke oven plant worker; coke worker; general term for any worker at coke oven plant, including coke doorman, coke drawer, coke filler, coke picker, coke screener, coke stacker, coke washer, dauter, oven loader, quencher, ram engine man (1885 *q.v.*).

coke oven top man, *see* crane-man; *cf.* coke oven top man (1885).

cooker, *see* coke and by-product man; *cf.* cooker (1881 and 1885).

coke worker, *see* coke oven plant worker.

conveyor man; belt man, creeper man; attends to creeper or belt conveyor, which transports coal or coke; regulates tension of belt by operating screw controls, oils machinery and chutes.

cooler, coke cooler; *see* quencher.

crane-man; coke doorman, coke oven doorman, coke oven man, coke yard doorman, doorman, jackman, winchman; lifts doors of oven, either by hand or by mechanical means, to facilitate charging and discharging; *cf.* crane-man (1885).

creeper man, *see* conveyor man.

dautler, dautler, daut man, daut worker; general terms for any persons employed in coke oven plants who are paid at daily wages rates.

daut boy; (i) *see* washer, doer; (ii) *see* dauter.

dauter; daut boy, tauter, glauter; plasters interstices between bricks and door of a by-product oven with "loam," i.e., a mixture of clay and

coke dust or boiler ash, by hand, so that air supply is diminished gradually and finally sealed off, when door is broken down to allow discharge, wheels away old clay to daut grinder *q.v.*

daut grinder; pug mill attendant, pug mill man; feeds and discharges pug mill, using a shovel, pug mill which grinds up breeze, clay, and previously used daut, to make fresh moist daut for "luting" (sealing) coke oven doors (*see* doorman).

doorman, coke doorman, coke oven doorman, coke yard doorman; (i) *see* crane-man; (ii) *stagger*; closes doors of chamber or oven before charging, and plants them with puddled clay to make them airtight; *see* dauter, and door washer; (iii) ("beehive" oven), builds up and daubs it with clay to prevent coal from running out.

draughtsman *see* drawer; *obsolete*.

drawer, coke drawer; draughtsman (*obsolete*); breaks down and draws out coke from coke "beehive" coke oven (1885).

elevator man; controls elevator (or bucket conveyor) which transports coke to screens, tip, or hopper, or cow to coal breaker in a coke oven works.

exhauster boy, *see* gas exhauster driver (1890 *q.v.* in light unskilled jobs e.g. cleaning up, stoking).

filler, ash; coke ash filler; a yard labourer who fills ash or breeze with coke driven from boiler furnaces and coke benches, to be wheeled away by ash wheeler or ballast wheeler *q.v.*

filler, breeze, *see* breeze man.

filler, coke; coke chucker, coke lifter, coke loader; a benchman *q.v.* who fills railway trucks, etc., with coke, using a large fork; *cf.* breeze man.

gas regulator's assistant; *see* gas regulator's assistant, a labourer who assists gas regulator (1885 *q.v.* in opening and shutting valves).

grinder, *see* exhauster boy.

haulage man, *see* carman.

hearth man; (i) a benchman *q.v.* employed on "beehive" ovens; (ii) general term for man working on hearth, i.e. discharging end of coke oven, including doorman, quencher *q.v.*

hearth man's assistant; term sometimes applied to doorman *q.v.* assisting a quencher *q.v.* on hearth (discharging end) of coke oven.

hopper man, hopper lad; is engaged at hopper, discharging mechanically weighed quantities of crushed coal into wheeled buggies for charging into retorts.

hydraulic main man, *see* tar main man.

jackman, *see* crane-man.

labourer; does any unskilled work in coke oven or by-product plant; usually specifically designated, e.g., by-product labourer, coke labourer, coke oven labourer, sulphate labourer, valves labourer, yard labourer.

leveller, coke oven leveller, oven leveller; levels coal in coke oven by hand with a long rake, work only performed in older type furnaces or when mechanical leveller breaks down; usually done by ram engine man (1885 *q.v.* with a mechanical appliance joined to his ram).

lid man; removes oven lids before charging; replaces them after charging, and sweeps tops of ovens.

lifter, coke, *see* filler, coke.

loader, coke, *see* filler, coke.

loader, coke oven; coal loader, oven loader; charges coke ovens by hand, by tipping small trucks of crushed coal through steel door at top of oven; *cf.* charger (1885); work only performed when ovens are top charged.

loader's assistant, coal; removes cover of top charge hole of coke oven in preparation for charging; assists generally in tipping trucks and shovelling or sweeping up scattered coal; *cf.* charger (1885).

luter, *see* dauter.

picker, clinker; coke picker; picks out foreign materials, i.e. clinker and burnt shale, from quenched coke as it travels on conveyor bands to be screened.

plasterer, *see* dauter.

pug mill attendant, pug mill man. *see* daut grinder.

quencher, coke quencher; coke cooler, cooler, *see* quencher; benchman *q.v.* who cools down quenched red-hot coke with water, by hand, hose, or quenching machine, does work of burner (1885 *q.v.* in old-fashioned "beehive" ovens).

riddler, coke, *see* screener.

runner, *see* runner, small.

runner, coke; (i) fills tubs with coke for conveyance to blast furnace (beehive process); (ii) *see* runner, small.

runner, small; coke runner, runner; fills tubs on rake with crushed coal from a hopper; wheels tubs to coke ovens, and tips coal into them; *cf.* loader.

screener, coke screener; coke riddler, coke lifter, lifter; watches proper working of screen, i.e., mechanically-shaken sieve, which sorts coke according to size; controls motion by lever, cleans and sets working parts.

screen man, breeze, *see* washer, breeze, lifter, coke lifter, *see* screener.

slack creeper; a conveyor man *q.v.* on belt carrying slack or small coal.

stacker, coke; coke tipper; a yard labourer or coke labourer who quenches coke after it has been quenched and screened, either by hand (in barrows, etc.), or in bucket conveyors, and tips or stacks it in yard.

stopper, *see* doorman.

tar main man; hydraulic main man; cleans out bituminous deposit from gas mains which conduct gases from coke ovens by opening small trap doors on top of the mains and raking the deposit along from one trap door to another, until eventually the whole of the deposit is raked into the lower bench.

tipper, coke, *see* stacker, coke.

valve-man's assistant, valves labourer, *see* gas regulator's assistant.

washer, washery man; (i) regulates supply of coal from conveyor down chutes to washer, which separates coal (to be cooled) from earthy materials and reduces ash content by mechanically wetting it in water by means of jets or compressed air; manipulates valves, watercocks and power levers; watches machine for faulty working; cleans and oils working parts; (ii) *see* washer, breeze.

washer, breeze; small coke washer; breeze screen man, washer, washery man; washes breeze (small coke) in tubs of water with a hand riddle to remove dirt, and to prepare it for use in smiths.

washer, door; daut boy; bashes liquid puddled clay over oven doors during coking process to prevent surface of airtight plaster (lute) from cracking.

waterman; *see* quencher.

wheeler, ash; ballast wheeler; a labourer who wheels away tubs or barrows of ashes drawn from boiler furnaces and coke benches of a coke oven plant; generally also does work of ash filler *q.v.*

winchman, *see* crane-man.

Sub-Order 2.-Makers of Other Products.

091.-FOREMEN AND OVER-LOOKERS.

bankman; a foreman *q.v.* at salt works, at surface or "bank" of mine or quarry.

charge hand, *see* ganger (artificial stone and cement).

charge man; (i) (patent fuel) is in charge of operations in manufacturing patent fuel; tests the mixture of

coals and pitch in process of manufacture, and decides when consistency is correct; (ii) (self work) is responsible for regulating supply of steam, lime, etc., and general working of plant in vacuum process.

coal foreman, coal mill foreman (cement); a foreman *q.v.* in charge of grinding mill in which coal is ground for use in manufacturing cement.

foreman; allocates duties and directs work of semi-skilled workers and labourers; maintains discipline; engages and discharges workers under him; authorizes time sheets; sometimes, specifically designated, *e.g.*, fillers' and loaders' foreman (cement works), foreman lead mason (pencil works), foreman lime burner (lime kiln), kiln foreman (cement), lead mill foreman (pencil works), mill foreman (cement works), paste lead foreman (black lead works).

gaffer, see *ganger*.

ganger (artificial stone and cement); *charge hand*, *gaffer*; supervises work of men engaged in making artificial stone in concrete table and blocks under instructions of general foreman.

overlooker (cement); a foreman *q.v.* responsible for a specified section of work and in charge of men engaged thereon.

sampler (artificial stone); see *tester*.

superintendent of mixture (patent fuel); is responsible for the working of machines and belts, etc., which convey coal or coke dust and pitch to the hoppers.

tally man (cement); keeps account of weight or quantity of raw materials received and of cement produced; sometimes done by foreman or ganger of fillers and loaders (099).

tester (artificial stone); *sampler*; tests manufactured stone, to ascertain its tensile strength; inserts specimen in testing machine, applies pressure or pressure, hydraulically or by weighting beams; observes and records pressure or force at crushing, breaking or cracking point; usually done by manager or by foreman.

092.—KILN MEN AND LIME BURNERS.

blue lime burner, blue lime burner, blue lime burner, blue lime burner, blue lime burner, or for burner.

burner; furnace man, kilnman; is in charge of a kiln, oven, or furnace in which chalk, limestone, gypsum, or other mineral or combination of minerals is burnt (calcined); duties vary according to mineral burnt, and according to process, type of kiln used, etc., but usually feeds kiln, etc., with mineral by hand, or by setting feed apparatus in motion; feeds furnace with fuel; regulates heat of kiln, and decides when process is complete; often further designated according to mineral burnt, or according to process, type of kiln, etc., *e.g.*, blue lime burner, chalk burner, gray stone lime burner, kiln burner, rotary burner.

burner, kiln burner (cement); *clinker kiln man*; a burner *q.v.* in charge of a kiln in which mixture of chalk (or limestone) and clay is "burnt," usually in this country a rotary kiln; *cl. burner, rotary kiln*.

burner, chert, or for calciner, flint.

burner, gypsum, see *kiln man, gypsum*.

burner, lime; lime kiln man, lime maker; has charge of chalk (or limestone or chalk) in burnt; shovels limestone or chalk into top or mouth of kiln; maintains combustion by regulating draught; decides when process of burning is complete; sometimes also shovels fuel into furnace at base of kiln, and draws out quicklime, *e.g.*, lime after burning process, from bottom of kiln.

burner, plaster; boil plaster of Paris (gypsum) in a boiling pan.

burner, rotary kiln; rotary kiln man; is in charge of rotary kiln, used in manufacture of cement; regulates supply of slurry (mixture of lime stone, or chalk, and clay with water) to kiln by means of levers and throttles; regulates hot blast from furnace.

burner, rouge; rouge oven man; a burner *q.v.* in charge of a kiln in which ferrous sulphate is burnt to a powder (rouge), used in polishing metal surfaces.

burner, Schneider kiln; loads Schneider kiln (a vertical bottle-shaped kiln) with a layer of coke, which is fired; novels mixture of chalk (or limestone) and clay, in form of briquettes, through top or mouth of kiln, which is then sealed up by bricklayer or mason; when calcination is complete, withdraws bars on which coke and briquettes rest, allowing briquettes to fall to bottom of kiln; briquettes are then drawn out and taken away by labourers.

calciner, flint; charges kilns or cupolas with fuel, to be used in manufacture of china and earthenware or of glass; sends fuel to furnace; draws out calcined flints when process is complete.

calciner, magnesite; throws magnesite into kiln or furnace, which is kept always full; takes out magnesite, through an opening at bottom, where it is sufficiently burnt.

chamber man (cement), see *kiln man, chamber*.

dry man; dry kiln man; controls levers of lockout conveyor which carries slurry china clay from settling tank to heated floor of drying kiln; supervises labourers spreading clay to dry and removing dried clay in lumps.

fireman, abrasive wheel; abrasive wheel kiln man; attends to gas or coal heated furnace in which vitreous wheels (placed in a mould) are fired; sees that correct temperature is maintained; regulates heat by means of valves (if gas heated) or by opening or closing furnace door of coal heated furnace; removes moulds from furnace with tongs.

fireman, emery wheel, or for fireman, abrasive wheel.

fireman, oven (cement), see *kiln leader* (cement).

furnace man, see burner.

furnace man, whitings; shovels fuel into furnace heating hot plate, or bed, on which "clarry" of washed chalk is automatically run (becoming "whiting" when dried); sometimes also, where not working under supervision of foreman, judges whether furnace is at correct temperature.

kiln filler, kiln loader (lime burning); *kiln packer, limestone filler, stone filler* (lime burning); shovels chalk or limestone into blue kilns, with or without admixture of clay, in preparation for burning; may bore into buckets of feeding conveyor.

kiln loader, kiln filler (cement); *kiln setter* (cement), *oven fireman* (cement); charges kiln by shovelling in alternate layers of coke and of slurry drawn from kiln chambers, and attends to firing of charge.

kiln man, see *burner*; often specifically designated according to material burnt, or according to process or type of kiln used, *e.g.*, abrasive wheel kiln man, cement kiln man, Dutch kiln man, dry kiln man, lime kiln man, rotary kiln man.

kiln man, abrasive wheel, see *fireman, abrasive wheel*.

kiln man, cement, see *burner, kiln*.

kiln man, chamber (cement); *chamber man* (cement); regulates supply of gas to chamber kiln, in which chalk or limestone and clay, to calcine, are manufactured of cement, and is responsible for all material and fuel put into kiln.

kiln man, dry, see *dry man*.

kiln man, emery wheel, or for fireman, abrasive wheel.

kiln man, fuller's earth; shovels fuller's earth into a wheelbarrow; shovels it into kiln, and spreads it evenly over floor, with a shovel; turns it over with a shovel periodically, so that it is burnt evenly and completely; attends to furnace which heats kiln; cleans out furnace with a rake, by hand.

kiln man, gypsum; gypsum burner, gypsum ovenman, plaster boiler; spreads powdered gypsum on travelling bed of kiln (like a baker's oven); controls flow of hot furnace gases by means of dampers and so controls gypsum to relatively low temperature to drive off part of moisture, or dehydrate it, removes plaster of Paris at delivery end of kiln; *cf. gypsum boiler* (099).

kiln man, lime, see *burner, lime*.

kiln man, rotary, see *burner, rotary kiln*.

kiln packer, see *kiln filler* (lime burning).

kiln setter; builds up alternate layers of limestone and of coal in horizontal kiln.

kiln setter (cement), see *kiln loader* (cement).

lime maker, see *burner, lime*; sometimes further designated, *e.g.*, blue lime maker, hydraulic lime maker, stone lime maker.

limestone filler, see *kiln filler* (lime burning).

oven man, gypsum; see *kiln man, gypsum*.

oven man, rouge, see *burner, rouge*.

plaster boiler, see *kiln man, gypsum*.

stone filler (lime burning), see *kiln filler* (lime burning).

098.—OTHER SKILLED WORKERS.

abrasive wheel maker; general term for any operative engaged in making emery or other abrasive wheels, including grinding and making machine attendant (099).

artificial stone maker; casts mixture of cement, ballast, shingle, breeze, etc., into blocks, by hand or by machine, and faces them to represent stone.

asbestos sheet cutter; cuts sheets of asbestos fabric into lengths, or according to pattern, with shears; sometimes also prepares patterns (from paper or gum) from dimensions supplied to him.

block maker, breeze; puts "breeze," i.e., crushed or small coke, into a digger, and grinds it to powder; mixes powder with melted pitch, and passes it into a moulding machine, which presses it into blocks.

block maker, building; makes building blocks; (i) casts and sometimes faces concrete blocks; (ii) fills hollow blocks of clay, or brick, with mixture of cement and breeze or shingle.

block maker, cement, or for block maker, building.

block maker, concrete; fireproof block maker; concrete (fireproof) wall maker; or mixes "aggregate" of granite or other hard stone, chinker or gravel, and sand; passes it through mesh of given size, according to thickness of concrete required; mixes "aggregate" with cement, in definite proportions, in mixing machine, and puts mixture in hydraulic or hand press, which forms it into blocks; takes out blocks and leaves them to harden, watering them at intervals; (ii) makes concrete blocks by tamping or ramming "aggregate" and cement into moulds.

blockman (salt), see *lump maker, salt*.
breeze concrete partition maker; porphyry cut maker; (i) mixes cement, breeze (crushed or small coke) and water together, in definite proportions, in a mixing machine; puts mixture in machine which presses it into blocks by hydraulic or hand power; (ii) makes partition blocks by ramming or tamping breeze and cement into moulds.

composition stone maker, *see* flag maker, artificial.

concrete damp course maker, *as* for block maker, concrete.

concrete (damp-proof) wall maker, *as* block maker, concrete.

concrete pipe maker; (i) makes pipes of re-inforced concrete; places prepared cylindrical framework of strong steel wire in rotating machine into which concrete is poured, controlling velocity of rotation according to size of pipe, and stopping at intervals to allow water to drain off; transfers pipes, in moulds, to steam chamber for 24 hours; removes pipes from moulds and leaves them immersed in water tank for about one month; (ii) pours concrete into fixed moulds containing steel wire for re-inforcing; (iii) (for pipes less than 6 inch bore), stamps concrete, without re-inforcement, into moulds by hand.

concrete post maker; shovels newly mixed concrete into wooden moulds, smooths over top with trowel, and, when fairly firm, removes posts to dry in the open; posts are to be re-inforced, uses steel bars or wires in mould.

crayon maker; general term for any person engaged in making crayons, including mixer and moulder (crayons) *q.v.*

drower, salt; salt maker, *seller*; draws or scoops out, with skimmer, from bottom of boiling pans, salt which is continually being re-precipitated therein; places coarse salt in bulk on hurdle for drying, to warehouse, and fine salt in moulds or takes oriler (micante); drile brine in sheet mica, with a mechanically-driven drill.

electrical insulation maker (mica); general term for any person engaged in building up mica, insulating purposes, and in forming and pressing to required shape in a mould and placing mould in a semi-heated press; includes mica cutter, mica ring leader *q.v.*

emery cloth maker, emery paper maker; separates, by hand, levers of machine which spreads thin coating of glue on a piece of cloth or of specially prepared paper and automatically sprinkles it with emery stone; feeds machine, by hand, with pieces of cloth or prepared paper.

emery roller coverer; covers steel rollers with emery cloth, in form of a thin strip or fillet, for use in textile trades.

emery wheel maker; mixes ground emery stone with a binding material, *e.g.*, soluble glass, or shellac; moulds mixture into shape of a wheel, and dries it by application of heat.

fire cement wall maker; a concrete block maker *q.v.* who pours concrete "aggregate," re-inforced by rags or wood fibre, into moulds, and smooths off with trowel.

finisher, artificial flag; artificial stone finisher, composition stone finisher; concrete block finisher, patent slab finisher, patent stone finisher, plasterer; applies plaster mixture to surface of artificial stone, to make it smooth; slides stone into press (hand or by means of a lever); removes stone, by hand, after pressing.

finisher, concrete block; (i) cleans concrete blocks, after they have been taken out of moulds, with a wire brush, to remove dust and small pieces of foreign matter adhering thereto; (ii) *see* finisher, artificial flag.

finisher, partition slab, *as* for finisher, concrete block.

finisher, patent slab; patent stone finisher, *see* finisher, artificial flag. fireman (soda work), salt fireman; lights and feeds fires under salt pans; maintains correct temperature by adjustment based on experience and by judgment of flow dampers; also cleans; sometimes also does work of salt drawer *q.v.*; *cf.* salt boiler.

fireproof door maker, *as* for flag maker, artificial, except that pumice stone is used, instead of ordinary stone or gravel.

flag maker, artificial; artificial flag-stone maker, cement flag maker, concrete flag maker, paving flag maker; composition stone maker, concrete slab maker, concrete paving slab maker; fills buckets with broken stone or gravel, pumice stone, binding material, water, etc., which have been mixed by another worker; empties buckets into wooden moulds, and rams down mixture with a wooden rammer; repeats process until mould is full; places over on mould, and beats it with rammer to give greater pressure; leaves moulds to solidify; before concrete has completely hardened, gives final surface, with a trowel, to part of flag not covered by mould; removes concrete from mould, when it has solidified.

furnace man (lead pencil); fills crucibles and pots with dried strips of graphite (plumbago, or black lead), and places them in furnace or kiln, to burn to fire and empties furnace or kiln when process is complete.

ganger, cement, *see* taster, cement.

glass cloth maker, glass paper maker, *as* for emery cloth maker.

lead worker (lead pencil); general term for any person engaged in preparing graphite (plumbago, or black lead) for lead pencils; includes furnace man, lead presser, lead layer (002), machine band (003), mill band (004), lead mixer (005) *q.v.*

lofter (salt); takes salt from drying stoves; puts it on a hand truck, and conveys it to a loft, and stacks it there.

lump maker, salt; lumpman; blockman; turns salt out of mould in blocks; carries it to stove at back of fire, where it is thoroughly dried, dryness being proved by "ringing" or sounding it; sometimes also stores it in room over stoves until it is sold as "stared" salt (*see* lofter).

mica cutter; cuts off rough edges from split mica plates with a knife; also turns mica into forms and patterns with large shears and punches, operated either by hand or by mechanical power.

mica ring builder; assembles thin mica sheets, out to circular shape; daws surface with shellac, and builds one upon another to required thickness; puts these "mica shapes" in ring mould or hot press.

mica splitter; splits mica, which has already been separated into plates, into sheets of extreme thinness with a thin-bladed knife.

mica worker; general term for any person working with mica, including mica cutter, mica ring builder, drile, mica splitter *q.v.* mixer; measures or weighs out ingredients of mixture; sometimes also tips them into mixing machine, sets machine in motion, and decides when mixing process is complete, often further designated according to material mixed, *e.g.* article manufactured, *e.g.* abrasive wheel mixer, emery wheel mixer, lead mixer, liquid lead mixer; *cf.* mixer (001).

mixer, lime (soda work); weighs out lime, and places it in water, whence it runs into mill, and is mixed and ground along with silica materials.

moulder (abrasive wheels); fills moulds with abrasive materials, mixed, ground, and moistened to form a paste, places mould either in a hydraulic press or in a hot-dry chamber, to dry; sometimes also puts mould in a kiln or oven.

moulder (crayons); supplies crayons paste to machine, which shapes it into sticks; these are automatically cut off in short lengths as they issue from machine.

moulder, patent slab, *as* for flag maker, artificial.

patent slab maker, patent stone maker, *as* for flag maker, artificial.

plaster chopper, plaster cleaner; removes outer covering of stone from plaster of Paris (gypsum), by chipping it off with a special apparatus.

plasterer, *see* finisher, artificial flag; *cf.* plasterer (507).

plate builder, micante plate builder, plate layer, micante plate layer; coats surface of thin shavings of sheet of pumice with shellac, and builds them one upon another (usually upon an oiled iron sheet) to desired thickness; plates are then heated in oven, to drive off excess of spirit, and pressed in steam-heated press.

presser, lead; (general) prepares and fills seal pots with mixed ingredients of lead; puts pots under hydrostatic press, and operates press by means of levers.

pressman, black lead; feeds and operates small hand or hydraulic press which presses a "black lead," in paste form, into blocks.

roof panel maker, concrete; fireproof roof panel maker; makes thin slabs of concrete, by mixing concrete and putting it into a mould, and either pressing it in a hand or machine press, or allowing it to dry and harden in air.

salt boiler; builds open pan, heated by furnace underneath, in which brine is boiled; sees that pan is supplied with brine, and sometimes maintains fire in furnace; if fireman (only) in some works also acts as salt drawer *q.v.* salt maker, *see* drawer, salt.

samples, cement, *see* taster, cement.

sampler (salt, patent fuel, pitch); takes sample of patent fuel, etc.

every hour during manufacture and assists chemist to carry out tests for volatile matter and chloric content, and paper maker, *as* for every cloth slab maker, concrete; concrete paving slab maker, *see* flag maker, artificial.

slab maker, partition, *see* concrete concrete partition maker.

taster, cement; cement sampler, cement taster; cement sampler, cement taster; as prescribed in British Standard Specification for (a) fineness—by means of standard sieves; (b) chemical composition—by chemical analysis on standardized methods; (c) tensile strength—by making briquettes of standard form and dimensions and submitting them at certain ages, *e.g.*, 7 days, to breaking stresses in special machine; (d) setting time—by means of Vicat apparatus; (e) soundness—by the Le Chatelier or other methods, *i.e.*, a determination of the expansion on setting; is often done by chemist, but tests vary according to quality tested.

turner, abrasive wheel; dresses rims of emery or other abrasive wheels with a toothed disc pressed against rim in a lathe, and turns rim in a lathe, using a diamond tool.

turner, emery wheel, *as* for turner, abrasive wheel. mica, turns sheet mica to turner, mica; required diameter on a power-driven lathe, *e.g.*, to reduce diameter of washers previously stamped out of sheet mica.

Venetian pavement maker; an artificial flag maker *q.v.* who mixes coloured materials with other ingredients of aggregate.

walker (salt), *see* drawer, salt.

000—OTHER WORKERS.

abrasive wheel maker's helper; carries material for abrasive wheel fireman (002) *q.v.*, helps in firing furnace and removes fired wheels in a barrow.

asbestos fuel maker; pours asbestos cement, in a liquid state, from a can or other receptacle into iron moulds; applies special composition to these moulds, to prevent cement sticking; asks and marks mark (patent fuel); washes; removes ash from furnace, and keeps furnace stoked and clean.

asphalt block maker; attends a large boiler in which ground rosin asphalt is "cooked"; empties sacks of asphalt into top, or mouth, of boiler, together with a certain proportion of lump bitumen; sometimes also adds mixture (whose boiler is not fitted with mechanical stirrer) feeds furnace which heats boiler with coke or other fuel; runs off asphalt (now liquid) through a cock from boiler into buckets or draws it off in ladles; empties buckets or ladles into moulds in which asphalt is left to cool and harden.

asphalt block maker, asphalt mixer; mosaic maker; (1) coats asphalt in a boiler (see asphalt block maker) sometimes turns over ingredients with a shovel, before cooking, to mix them thoroughly; sometimes also adds lime and gravel, as well as bitumen, to asphalt, which may or may not be run into moulds for making blocks; (2) (in North or Maryland) sprays tar, usually from a hand-manipulated pumping engine, on to granite chips, which are then turned over and over with shovels until thoroughly saturated.

bagger (concrete); fills bags or sacks with crushed or ground clinker, granite, or other stone, mixed with sand, for use in making concrete.

bagman (cement); see filler, cement.

both brick maker; mason; a yellow brick of siliceous material by mixing sand and clay; puts it into a moulding machine, and subjects it to great pressure.

beater (cement); bag beater, sack beater; cleans sacks by beating them with a stick, to dislodge particles of cement adhering thereto.

belt conveyor attendant; a conveyor man *q.v.* in charge of a conveyor of the endless-belt type.

belt conveyor, belt repairer; wears put of glue, spreads glue on leather belt and applies emery powder to make or repair polishing belt for cleaning iron castings; repairs cover on belt when worn off by use.

belt man (patent fuel); takes briquettes off travelling belt connected to press, and piles them on trolleys ready for despatch.

blaman (patent fuel); bunkerman; loads bags in such piles, coal, or coke is stored, from trucks, by hand, using a shovel; sees that bags are kept filled for use in manufacture of briquettes.

black lead labourer; black lead mill hand, lead mill man; brings raw material to mill (if not equipped with automatic feed apparatus), and removes material therefrom after grinding; handles coils of plumage (graphite, black lead); charges grinding and mixing plant, and does any other labouring work in black lead mill.

black lead maker; stone polish maker; a black lead labourer *q.v.* who mixes automatic mixing pan, which mixes together ingredients of black lead.

boob chunder getter; takes clinders from bottom of water box.

breaker; crusher, crusher works labourer; shovels or throws material into breaking or crushing machine, where machine is not fed by conveyor belt or buckets; breaks material by hand with a crusher hammer, if it is too large to enter machine; watches machine as it breaks up material, automatically sorts it by size and throws it out, for further working, cleans and oils working parts; controls machine by means of levers; sometimes specifically designated, e.g., crusher breaker, granular breaker, gypsum breaker, silica breaker, slag breaker, stone breaker.

brick mill boy; assists pugger-up (cement) *q.v.*; takes bricks, automatically cut from a plastic bar as it issues from pug mill, to be dried.

brquette maker; general name for any person employed in manufacture of patent fuel briquettes, including bin man, mixer *q.v.*

bucket man, see elevator attendant; sometimes further designated, e.g., pitch bucket man.

bunkerman (patent fuel); see binman.

calometer boy (cement); chemist's boy, sample boy, test boy (cement); takes samples of calmed products (clinker "1") from kiln to analyst or to cement tester (008) *q.v.* for examination.

carrier, trolley; fetches and carries bags or sacks; wheels cement, salt, or other minerals or materials from place to place in a hand or mechanically-driven truck; or does other similar carrying jobs; sometimes further designated, e.g., bag carrier, sack carrier.

calculator (cement works), cement worker; general terms for any person employed in cement works; includes kiln leader (002), conveyor man, clincher driver, cement filler, grinder, mill hand, pug mill man, sample boy, silico man, speckling boy, trimmer, washmill attendant, weighman *q.v.*

chemist's boy (cement); see calculator boy.

clay feet maker; a briquette maker *q.v.* who makes briquettes by mixing coal dust and clay, and stamping mixture into blocks.

clay tank attendant; is in charge of a slurry tank, in which clay is mixed with water to form a paste or slurry; directs labourers shovelling in clay, controls flow of water by means of cocks and mechanical agitators by means of levers; runs off slurry and directs labourers in digging out gravel, etc., from bottom of tank.

cleanser, washmill (cement); cleans and keeps in order, washmill in which "slurry" is made, see washmill attendant.

coal chucker (slag); see coal man.

coal man (patent fuel); coal chucker (slag); general term for any worker engaged in handling coal for manufacture of patent fuel, including binman, coal tipper, not coal man, screeman, trimmer *q.v.*

coke boy (cement); loads coke into buckets, which are pulled up to kilns.

concrete block worker; general worker; for any worker engaged in manufacture of concrete blocks; includes concrete block maker (006), three cement wall maker (008), concrete mixer *q.v.*

concrete tube worker; general term for any worker engaged in manufacture of concrete tubes; includes concrete pipe maker (008), concrete mixer *q.v.*

conveyor man (cement); is in charge of conveyors (generally screw conveyors) which transport cement in grinding mills, warehouses, etc.; does other work when needed, and maintains them in running order.

conveyor, screw, see screw attendant.

cracker, crusher works labourer, see breaker; sometimes further designated, e.g., granular cracker, gypsum cracker, silica cracker.

crusher, crusherman, crusher feeder; minds a crushing machine, which either he is for pulverising material, or (more commonly) for breaking up large masses, in preparation for grinding, or for calcination, etc.; throws or shovels material into machine, unless it is fitted with automatic feed apparatus; other operations similar to those of grinder *q.v.*; sometimes further designated according to material crushed, e.g., clincher crusher, emery crusher, slag crusher.

digger, pitch, see pitch man.

discharger; (i) unloads barges, trucks, etc., with shovel and barrow; (ii) feeds conveyor with material for removal; (iii) removes goods from conveyor, and piles them on trolleys, etc., for removal; (iv) further designations, e.g., fuel discharger, pitch discharger.

dodger (salt), removes "sand slate" from salt pan with dodging hammer; also takes salt off fireplaces to side of pan during precipitation.

drummer, lime; pushes trucks ("trams" or "drawn") of lime along a light railway track either to crusher at works, or to kiln.

drawer, clincher; kiln drawer, kiln driver (cement); draws out, takes out "clinker," i.e., cement in large unbroken masses, after calcination, from furnace; shovels it into trucks or takes it on to conveyor or travelling belt, for removal to grinding machine.

drawer, coke (cement); pushes trucks or barrows, loaded with coke from coke stack to kiln; pushes coke into trucks back again, often done by kiln attendant *q.v.*

drawer, kiln (cement); see drawer, clincher.

drawer, lime; stone drawer; takes out lime, after it has been burnt, from opening at bottom of kiln; usually also loads trucks or barrows therewith; sometimes further designated, e.g., blue lime drawer, hydraulic lime drawer; worker sometimes done by lime burner (002) *q.v.*

dryer, salt; dryer man (salt); adjusts supply of steam, hot air, etc., to drying machine; also regulates supply of salt to stores (in vacuum process) by adjusting speed of automatic discharge.

dryer, slurry (cement); works valves to regulate escape of waste gases from cement kiln, used to heat floor on which "slurry" (mixture of cement, or limestone, and water) is dried so as to come from mixer.

elevator attendant; bucket man; attends to elevator, i.e., a series of small buckets, mechanically-driven in an endless chain, for lifting material; controls power by means of levers; cleans and oils working parts; sweeps up spilt material.

emery grinder and washer, see washer, emery.

feeder; shoveler; shovels material into hopper of machine, on to belt or other conveyor or elevator, for conveyance to machine; or controls automatic feed apparatus of machine; often also controls, by means of levers, starting, stopping, and speed of running of machine; sometimes further designated, e.g., mill feeder, basic slag mill feeder.

feeder, ball mill; feeds and operates ball mill (rotating cylinder partly filled with stones or with steel balls) in which chiles, slates, limestone, etc., are crushed.

filler, cement; bagman (cement), cement pocker, or for filler, lime.

filler, coal (cement); loads coal from wagons or from dump, into trams or tubs, to be taken to kilns by coal wheeler *q.v.*

filler, coke (cement); charges cement kilns with coke.

filler, lime; lime pocker, stone filler; (i) shovels lime in tramp, or powdered state, into sack; ties mouth of sack with string, and carries it to store, (ii) looks sack on to chute, through which powdered lime from grinding machine automatically runs into sack; sacks are then automatically weighed and mouth automatically sewn up with wire; lifts off sack and carries it away.

filler, salt; see leader, salt.

filler, slag; slag getter; knocks down slag from dump or pit; fills wagon or tub therewith, and runs it to crusher.

filler, stone, see filler, lime.

filler, whitening; whitening pocker; fills boxes or other packages with powdered whitening, either by hand with a small trowel or by placing the packages on a mechanical feeder and operating hand lever which allows a quantity of whitening to run into each; seals boxes or packages for despatch.

filter press man (whiting); pumps liquid containing pure chalk on compression (see washer, whitening) into a filter-press, which squeezes out water, leaving filter bags filled with whitening.

finer, black lead; refines graphite (plumbago, black lead) by washing it with hydrochloric acid; also a change of graphite with sand, and some of liquor containing impurities, leaving sediment of pure graphite.

fire block maker (patent fuel), see pressman (patent fuel).

fine attendant (concentrator); regulates dampers, in flues, conveying kiln and furnace gases round kilns, through drying chambers, etc.; sweeps or rakes out dust from flues to flues through fine doors.

ganister maker; ganister pug grinder; a ganister grinder *q.v.* who mixes ground ganister with water in an edge runner mill (adding freecay or lime, if necessary) to make "ganister pug," a plastic material for use in building furnaces or retorts.

gas fuel maker; pours by hand, from a can, a slurry of asbestos composition into iron mould; clamps the top of the mould into position by hand and places in a hot air drying chamber until the composition hardens, removes hardened composition from mould by hand.

general man, see labourer.

getter, slag, see filler, slag.

grab labourer; attends on grab of crane, guiding it into position, signals to engineers when load is ready to move.

greaser; greases bearings of machinery, working parts of rotary kilns, shafting, wagon wheels, etc.; sometimes specifically designated, *e.g.*, kiln greaser, wagon greaser.

grinder, grinder attendant; grinding machine attendant, grinding mill attendant, grinder, mill attendant, miller, mill man, miller, mill worker, grinder (patent fuel); shovels or throws material into hopper of grinding machine, or controls, by means of levers, automatic feed apparatus, if machine is fitted therewith; sometimes breaks, with a hand breaker-hammer, before grinding, lumps that are too large to go into grinding machine; regulates, by means of levers, starting, stopping, and speed of running, of machine; oils bearings of machine; decides when process of grinding is complete, unless, as is now usual, machine is fitted with screens which automatically sift material after grinding; fixes into position, by hand, screens used for sifting material; directs work of any labourers assisting; often further designated according to material ground, *e.g.*, black lead grinder, coal grinder, china clay grinder, emery grinder, *cf.* breaker.

grinder, cement; clinker grinder (cement); cement miller; a grinder *q.v.* who operates a grinding mill in which "clinker" (cement in large masses, after calcination) is reduced to powder; sometimes also opens steam throttle, admitting steam into mill together with about 1 per cent. of gypsum, to improve setting qualities of cement.

grinder, ganister; ganister roller; a grinder *q.v.* who turns over materials, *e.g.*, broken ganister, lime, etc., to mix them; shovels materials after mixing into grinding machine (if not provided with automatic feed apparatus); adds water to mixture in machine.

grinder, ganister pug; see ganister maker.

grinder, gypsum; gypsum miller, gypsum millman; (i) shovels unburnt gypsum, previously broken by gypsum breaker *q.v.* into feed-hopper of a machine, in which it is finely ground (unless machine is equipped with automatic conveyor); (ii) operates a mill provided with stones, or with edge runners or rollers, which reduces gypsum, after calcination, to fine powder.

grinder (patent fuel); pitch-mill man, (i) a grinder *q.v.* who breaks up largest pieces of diamond pitch with a hammer and shovels the whole, by hand, into mill; (ii) a grinder *q.v.* who tips transmuted pitch into mill-

grinder (salt); salt millman; is responsible for feeding and discharge of crushing machine (mill) in which salt is ground and sifted, after which it is automatically passed into a hopper and run into bags; controls mill by means of levers, and directs operations of labourers who wheel salt to elevators, which carry it to top of mill, and of those who remove it when bagged.

grinder, silica cement, see silica cement maker.

grinder, soapstone; a grinder *q.v.* who grinds soft soapstone (talc) to powder, between burr stones, for use in manufacture of French chalk.

grinding machine attendant, grinding mill attendant, grinding miller, see grinder.

gypsum boiler; spreads finely powdered raw gypsum, with a shovel and rake, in a layer two or three inches deep, upon metal plate or shallow dish placed over a fire; heats it gradually, and stirs it occasionally until boiling ceases; *cf.* gypsum kiln man (192).

handy man, see labourer.

hearthstone maker; (i) squares rough lumps of natural hearth stone, by hand, with a small axe or chopper, into small blocks of convenient size; (ii) stands before hearth fitted with two sunk boxes or moulds, and with a hand press, fills boxes with a mixture of crushed hearth stone and a little cement, which is supplied to him ready mixed; screws down press, and after a few moments uncovers it, pushes finished hearth stone up, by pressing on a foot lever, mounted, by hand, and puts it on a tray; takes tray, when full, to drying room, where it is left to harden.

besterman (patent fuel); is responsible for heating of powdered and mixed coal and pitch in a heated chamber (whereby coal dust is coated with pitch and thus conglomerates more readily when pressed); tests consistency of mixture by pressing it in his hands from time to time; controls heating by opening or closing valve through which superheated steam is admitted to chamber.

halper (salt); assists salt farmer (195) *viz.*, usually on fine salt pan, during night shift.

hopper man (cement); attends to hoppers which keep kilns or mills supplied with material (chalk, limestone, clay, etc.); opens and closes throat of hopper by operating slide with a lever.

kiln attendant (cement); charges lime kiln with stone (also layers of chalk, limestone and coal by hand, using a shovel, in preparation for burning; may also do work of coke drawer *q.v.*; *cf.* kiln burner (192).

kiln packer (abrasive wheels, emery wheels); packs kiln with mounded wheels (ribbed wheels), ready for firing.

knocker-out, patent slab; taps slabs of artificial stone smartly when they are fired, so as to loosen them, lifts them from mould and stacks to dry in open air.

labourer; general man, handy man; does any unskilled manual work, such as shovelling, carrying, loading or unloading, pushing trucks, etc.; often specifically designated according to department in which labour is done, *e.g.*, lime slag labourer, cement labourer, coal washer labourer, kiln labourer, plaster mill labourer, sack store labourer, yard labourer.

ladder man (patent fuel); a pugman *q.v.* who operates coal or pitch elevators by hand, by means of levers, allowing pigs to be fed with either pitch or coal dust.

lead layer (pencil); lays strips of prepared graphite (black lead) from press on boards; cuts them into lengths, and places them in drying room.

loader; loads material from dump into railway wagons; wheels sacks or coals from warehouse, and loads them into lorry, or takes them to quay for loading barges; sometimes further designated, *e.g.*, cement loader, lump loader, rough slag loader, whiting loader.

loader, salt; salt filler; shovels salt into a cart; whenever it is tipped or shovelled into a barge or wagon.

loader, wagon (tar macadam), see mixer (tar macadam).

machine hand (lead pencil); shovels lead, *i.e.*, a compound of graphite, which has been ground by mill attendant, into hopper of automatic machine which presses lead into shape for pencils.

marker, oak; marks goods with shawl showing brand, weight, etc.

mastic maker, see asphalt maker.

mixe, slurry mixe (slag), see slurry man (cement).

mill attendant, mill hand (lead pencil); (i) shovels lead, *i.e.*, a compound of graphite into hopper of grinding machine; removes final bits of ground lead; (ii) see grinder.

mill, see grinder; often further designated according to material milled, *e.g.*, basic slag miller, cement miller, coal miller, gypsum miller, lime miller, lime has lime miller, hydraulic lime miller, stone lime miller, whiting powder miller.

miller, dry; a grinder *q.v.* who grinds material in dry state as distinguished from wet miller, or wash mill attendant *q.v.*

miller (wash mill), wet miller, see washmill attendant.

miller's mate; assists miller or grinder *q.v.* with less skilled work of shovelling, trimming, etc.

mill hand, black lead, see black lead labourer.

mill hand (cement); general term for any person employed, in any capacity, at a mill in which coal or other material for use in cement manufacture, or clinker, *i.e.*, cement after calcining, in large unbroken masses, is ground.

mill hand (paste lead); by means of a small hand shovel or trowel, feeds top roll of power-driven roller mill with paste lead, *i.e.*, graphite clay and water, from wooden tub in which it has been mixed by hand mixer *q.v.*

mill man, see grinder; sometimes further designated, *e.g.*, filler's millman, gypsum millman, salt millman.

mill man, lead, see black lead labourer.

mill man, whiting; breaks up, with shovel, large pieces of chalk, and picks out therefrom, by hand, flints or other foreign substances; shovels chalk into wash mill, where it is ground with water to form a thin cream or slurry, which empties itself from machine into pits; switches power of machine on or off, as required.

mill worker, see grinder; sometimes further designated, *e.g.*, barytes mill worker.

milner, see grinder; sometimes further designated, *e.g.*, lime milner.

mixer, cement; mixer attendant (cement); slip mixer, slurry mixer (cement); keepman; (i) feeds and operates a rough mixer, in which powdered limestone is mixed with powdered clay, etc.; (ii) controls flow of "slurry" (a mixture of ingredients in semi-fluid, paste form) into tanks, called mixers, to which he adds chalk or clay (also in form of "slurry"), as directed by analyst, to obtain correct proportions of these ingredients; controls mechanical stirring device which mixes contents of tanks.

mixer, lead (pencil); prepares and mixes, under supervision, graphite ("black lead"), clay, and water, ready for grinding; mixes materials by hand, in a tub.

mixer, paste lead; paste lead

laborer; under direction, tips weighed quantities of ingredients for paste, "black" mud, etc., into mixing machine; controls machine by levers; sometimes also operates filling machines.

mixer (patent fuel); feeds, by means of conveyor belt, and operates a mechanically driven mill in which small coal and pitch are powdered and mixed in correct proportions, under instructions of charge man (001) g.v., for making briquettes; discharges the ground mixture by opening a door underneath the mill and receives either in a barrel or by conveyor belt.

mixer, slp (cement); slurry mixer, see mixer, cement.

mixer (tar macadam); pickler, screen attendant, scraper, fender (for macadam); supervises screens in which washed stone or slag is sifted; operates hopper which conveys screened slag to mixer; operates tar mixing gear, and dumps tarred material into wagon; looks after mixing machine attendant (abrasive wheels); receives raw materials (emery or other abrasive material, and binding material) which have been weighed out by foreman or mixer in prescribed grades and sizes and shovels them into mixing machine, sometimes adding water thereto; stops machine when mixing is complete; sometimes clears away mixed material from machine with a shovel; sometimes also wheels or carries mixed material to moulding shop.

mop dresser, mop and bob dresser; as for belt dresser; sometimes specifically designated, e.g., culm mop dresser.

muckman, see ash and muck men.

nut coal man (patent fuel); is in charge of screens (sifting apparatus) on which coal is sifted and classified; regulates, by turning a tap on or off, supply of water which washes coal it is runned after washing (see washer, coal); keeps screen clear by removing with a rod or spade handle, matter released in rinsing coal; lubricates screen and generally maintains efficiency; watches and controls running of water launder feed, etc.

oilier and tipper (patent fuel); a coal tipper g.v. who, in small works, also does work of oilier g.v.

oilier; oils and greases machinery, gear, shafts, blocks, etc., used for grinding or conveying materials, or for pulling coal wagons on to tipping platform and tipping into him; sometimes specifically designated, e.g., sulzer's oilier (cement).

packer, cement, see filler, cement.

picker, lime, see filler, lime.

picker, whitening, see filler, whitening.

paste lead labourer, see mixer, paste lead.

patent fuel maker, patent fuel processman; general terms for any person employed in manufacture of briquettes, fire blocks, or other kinds of patent fuel; includes sampler (008), belt man, blower, briquette maker, grinder hesterman, mixer, nut coal man, pitch picker man, pitch valve man, pressman, screenerman, slurry man, superheater, well man g.v.

put maker, put man (cement); weighs and measures out specified proportions of cement and water (or cement, sand and water), mixes and pours into moulds to make put or small cubes or bricks for use in standard tests; assists cement tester (008) generally.

putting slab labourer, concrete; stacks artificial flags, blocks, or stones; loads and unloads stones, etc., or materials; pours cement into moulds and presses it by hand or by machine; knocks slabs out of moulds when they have set hard enough, and does other labouring work.

picker, clicker (cement); examines clinker after it has been cooled from kiln by clinker drawer g.v. and sets aside, for further burning, any parts not properly calcined.

picker, lime; lime sorter, lime trimmer; picks lime free from stone, coke, clinker, etc., at kilns with hand fork; sometimes further designated, e.g., blue lime picker, hydraulic lime picker.

picker, pan (salt); removes scale from bottom of boiling pan, when pan is empty, with chipping tool, hammer and scraper; usually done by salt drawer (008).

pickler (tar macadam), see mixer (tar macadam).

plier (patent fuel); receives pressed blocks from the pressman and loads them on to trolleys for conveyance to stores.

pitch man (patent fuel); pitch digger; a labourer g.v. who digs out pitch from stock heaps and shovels it into trains or barrows; usually also acts as pitch chandler g.v.

pitch-mill man, see grinder (patent fuel).

pitch valve man (patent fuel); attends to pumps and apparatus, which convey melted pitch to makers or miller; regulates flow by means of hand operated valve.

plaster mill labourer (cement); a plaster works labourer g.v. who assists in crushing or grinding plaster cement, i.e., cements having gypsum as their base.

plaster works labourer; does general labouring work, such as bevelling or wheeling material, in works where plaster of Paris or plaster cement is manufactured from gypsum.

preparer, china clay; controls by means of sluices flow of china clay slurry first down long channels, called "sand drags," in which sand is deposited; then more slowly through other channels, called "mosses" or "moss runs," in which fine meshed gauzes and traps are fixed to retain mucus and other impurities; and finally into settling tanks, where clay settles out and water is pumped off.

presser, artificial stone; press man (artificial stone); slides stone under press, by hand; brings down press upon stone, and releases it again, by moving a lever; takes stone out of press, by hand; sometimes also fills moulds, by hand, with ingredients of artificial stone.

pressed (patent fuel); fire block maker; feeds and operates a heavy hydraulic or other press or set of rollers, which compress a mixture of powdered coal dust and pitch into briquettes, or other forms of patent fuel; regulates feed by opening and closing door of pug mill by means of a lever or, in some instances, a screw.

press room man (patent fuel); a labourer g.v. who sweeps up floors in the press room, rubbish, etc.

pug grinder, pugger-up, pug man, pug mill man; attends automatic feed apparatus; causes materials, (e.g., chalk or limestone and clay, in case of cement, or coal dust and pitch, in case of patent fuel) to be discharged into a pug mill, where they are worked up by revolving knives into a paste with water, and issue therefrom as a plastic bar; controls pug mill by means of levers; examines plastic mass or bar being discharged for faulty work; cleans and oils working parts.

pulverizer (patent fuel), see grinder.

purification man (salt); regulates purification of crude brine; filters of sediment and grit; operates pumps for pumping brine to vacuum plant.

quartz worker (electric lamps); cleans and sorts quartz to be made into continuous conductors for lamps and heaters.

rammer (artificial stone), see tamper.

rammer, salt; tube cleaner; cleans steel tubes in salt works, by ramming a bar of steel, with cutter attached through them to remove coating of hard salt deposited during evaporation of brine.

roadman (patent fuel); keeps in repair, roads on which trucks and trolleys run.

roller, gambler, see grinder, gambler.

roller, silica, see for grinder, gambler.

roofman (patent fuel); sweeps dust from pug mills or mixers, which are settled on roof of factory, down chutes, to be collected and used in manufacture of briquettes for factory boilers.

runner, see wheeler; sometimes further designated, e.g. lime runner.

sackman; is in charge of sack store, and directs sack sorters and labourers g.v. employed therein.

sample boy (cement), see calcimeter boy.

saturator (cement); shovels gypsum, after it has been calcined, into tanks containing a chemical solution, and shovels it out when saturated; works under direction of a foreman who decides when saturation is complete.

scraper (cement); scrapes cement from used bags with a piece of iron.

screen attendant (tar macadam), see mixer (tar macadam).

screenerman (patent fuel); attends conveyor fed machine screens for sifting and classifying different qualities of coal; watches delivery from screens and clears away with use of metal rod or shovels any pieces which may have become lodged in screen perforations during sifting; lubricates mechanism.

screw attendant; screw conveyor, worm bog (patent fuel); a conveyor man g.v. in charge of conveyor of screw, or spiral, type which conveys paste or mud from bins by means of elevator to the mill, or ladder man; sweeps round the presses and keeps everything clean around the elevator.

shipper (patent fuel); loads briquettes into carts or railway wagons, or stores them in holds of ship.

slave man (salt); puts fine dry salt into bags, and wheels it to storehouse.

silica cement maker; silica cement grinder; a grinder g.v. engaged in grinding materials for cement containing a proportion of silica.

silica works labourer; breaks up, with sledge hammer, large pieces of silica rock or gambler, which it in barrows or tubs to breaker or crusher g.v. and attends to elevators and chutes; loads carts with gambler pug, and packs silica cement in bags; wheels and unloads coal at kilns, and does other unskilled work in yard of silica works.

slidemans (patent fuel); attends to slides below coal hoppers, and regulates amount of coal passing through openings on to conveyors.

slurry man, slurry pond man, slurry pond navvy (cement); sinks, slurry sink (slang); pumps out slurry (mixture of chalk or limestone and clay with water) from wash mill or slurry pond, and regulates supply to kiln chamber.

slurry man (patent fuel); opens valves periodically in bottom of settling tank of washing box, through which slurry is discharged in compressed form.

sorter, bag; sack sorter; sorts and keeps account of bags or sacks.

sorter, lime, see picker, lime.

sorter, mica; a man of mica-bearing rock into sizes ready for mica splitter (008) g.v.

sorter, pumice stone; sorts pumice stone (imported in bulk) according to grades of stone, and according to quality, as indicated by sound made when stone is hit against a piece of wood.

sorter, sack, see sorter, bag.

spare man; works odd shifts at various operations, in absence of a regular man, through illness, etc.

spout man (cement); a cement filler g.v. who controls trap of chute from which bags are filled.

spreader, slurry; spreads slurry (mixture of chalk or limestone and clay, with water); after water has been partially drained off, and after slurry has been treated in mixer, on a floor, to be dried by gas from kiln, stacker, artificial flag; stacks artificial flagstones in warehouse or yard.

stove polish maker; see black lead maker.

superheater (patent fuel); a stoker who attends to apparatus for superheating steam which heats mixture of coal and pitch.

tail worker; general term for workers engaged in production, i. e., mining, crushing, pulverizing, screening, etc., of talc.

tampier (artificial stone); rammer; presses into mould, by hand, "aggregates" i. e., mixed ingredients used in compounding artificial stones.

tared material maker, tarmac worker; loads and unloads stone and other materials; passes broken stone through crusher, preparatory to sorting it with a cylindrical screen, and mixes screened stone with tar, by hand or machine, to form tarmac, for road paving; cleans yard, and does other labouring work in connection with manufacture of tarmac; see mixer (tar macadam).

temperer (cement); see mixer, cement.

test boy (cement); see calcimeter boy.

thrower-out, kiln thrower-out; see drawer, clincher.

tipper, coal; works apparatus which draws railway wagon on to a cradle, and tips out coal into bins.

tongman (patent fuel); trolley man; attaches to and detaches from endless rope by means of clip or tongs trolleys used to convey finished products from store sheds to point required for shipment.

trimmer (cement); trims, i. e., disposes with a shovel, convenient for packing, heaps of cement formed at bottom of spouts of cement grinding machine; and shovels back on to heap, cement which has been spilt from sacks or which has encroached on concrete.

trimmer, lime; see picker, lime.

trimmer (patent fuel); trims, i. e., shovels, coal in bins, to make it flow more evenly on to elevators and conveyors; cf. binman.

triuman, salt; (i) trims, i. e., shovels, coarse salt of water has been loaded into ships or barges in bulk, so that the cargo is evenly disposed in hold; (ii) trims bulk salt in warehouse.

trolley boy; assists trolley man (q. v.).

trolley man (patent fuel); (i) pushes up trolleys loaded by belt man (q. v.) from presses to yard or to side of ship; (ii) see longman.

trotter; see carrier.

tube cleaner; see rammer, salt.

valve man (salt); operates valves for dropping salt out of pans ready for drawer.

washer (cement); see washmill attendant (cement).

washer, coal; washing box man (patent fuel); operates machine in which shale and other coal impurities are removed from coal by mechanical agitation of water; controls, by levers, flow of water and through perforated tray and of coal into washing box, and opens and closes shutter through which shale is expelled.

washer, stony; every grader and washer; shovels stony into a rotating drum, from which it is washed in water.

washer, whitening; feeder; operates a wash mill into which chalk is shovelled, or delivered by mechanical means; pumps in water, and operates levers controlling "barrows" or "lines" (breaking knives) which powder chalk, run off fluid into channels in which impurities settle, leaving pure chalk in suspension.

washing box man (patent fuel); see washer, coal.

wash mill attendant (artificial stone); shovels gravel or other ingredients of

artificial stone into wash mill, where it is washed with water, to remove dirt; controls water supply by means of cocks.

washmill attendant (cement); washmill hand, wash roller, washmill man; miller (wash mill), miller (cement), wet miller (cement); controls, by means of levers, wash mill machine, and sees that it is working properly; if machine has no automatic feed apparatus, feeds machine with materials (chalk or limestone, clay, etc.), which are then mixed with water and converted into a slurry, from which cement is made.

welcher, coal truck (patent fuel); weighs coal or coke dust in truck or wagon before it is placed in storage bins, and keeps a record of coal stored.

welgher, fuel (patent fuel); weighs quantities, when loaded, into wagons ready to leave works; runs wagon on to machine or weighbridge, and deducts tare of wagon from gross weight.

welgher, pitch (patent fuel); see for washer, coal truck.

wal g a s o n; weighman-to-mill (cement); weighs raw materials received at cement works; sometimes also weighs finished product.

wall man (patent fuel); clears out wells into which fine dust from brunettes is carried by water from surface of tables and moulds.

warehouse man (cement); (i) wheels or carries cement sacks or barrels and lowers them into barges through chutes, or by hoisting them with cranes; (ii) unloads on to wharf, loads of clay, coal, chalk, etc.

wheelier; rammer; wheels materials or finished products from place to place in works, in trucks or barrows; sometimes further designated, e. g., chalk wheelier, clay wheelier, coal wheelier, or coal wheelier, ditch wheelier.

whiting ball maker, whitening block maker; settling moulder; receives thick paste whitening from becks (settling tanks) or filter press and roughly shapes it into balls or blocks, which are then dried either by drying balls first on slabs, then on racks, for air currents to play round them, or by placing them on a hot plate with fire underneath.

whiting dabbler; scoops out whitening from becks or settling tanks, into a bucket, and wheels it to brick making; sometimes also does work of whiting ball maker (q. v.).

whiting maker, whitening worker; general terms for any person employed in making whitening, including whiting ball maker, whitening moulder (q. v.).

whiting moulder; see whiting ball maker.

worm boy (patent fuel); see screw attendant.

ORDER V.—MAKERS OF BRICKS, POTTERY AND GLASS.

Sub Order I.—Makers of Bricks, Pottery and Earthenware.

101.—FOREMEN AND OVER-LOOKERS.

head miller (pottery); is responsible for whole working of mill and superintends work of millers and millmen (104) (q. v.) in feeding, sampling and cleaning of pans or cylinders, and firing of new runners and paviors; also sees that machinery is well oiled.

potter's overlooker; examines pieces of pottery by sight and touch in greenhouse, i. e., in clay state, after drying, as received from potter's bench, before they go to press or firing, and sends back to slip house, to be broken up, those which are defective; sometimes done by looker to ware (115) (q. v.).

102.—BRICK AND UNGLAZED TILE-MAKERS, MOULDERS, PRESSERS, AND CUTTERS.

angle maker; a moulded brick maker (q. v.) who specialises in making angle bricks.

battay; bends or bats bricks, partially dried on flats, with a tool called a clapper, as they are packed, in order to correct any warping which may have taken place during first drying; work usually done by moulder or brick-maker (q. v.); cf. battor (119).

block maker, fireclay block maker; lamp maker, mold maker; makes large fireclay blocks used for furnaces, boilers, etc.; places a watted wooden mould on sanded portion of drying floor; throws large masses of fireclay clod or pug with great force into mould; compresses clay as equally as possible by vigorous pom-melling with fist and kneading with fingers, and removes excess of clay with stretched wire, or stroker, i. e., a specially shaped stick.

brick machinist; see brick maker, machine.

brick maker, chrome; a brick maker (q. v.) who makes bricks from chrome iron ore, finely crushed and ground, and mixed with lime, tar, or other binding material, and water.

brick maker, stamelled; glazed brick maker; a brick maker (q. v.) who makes bricks of materials suitable for glazing with a mixture of felspathic glass; may also dip bricks by hand in tank of glass and sand on pallet, usually done by dipper (105) (q. v.).

brick maker, facing; faces facing brick maker, red facing brick maker; a brick maker (q. v.) who makes, by hand, or presses and, if necessary, re-presses, in a machine, good colouring clay to form heavy, smooth-surfaced bricks of good colour, and accurate in size and form, for outer walls of buildings.

brick maker, glaze bricks, glazette, glazed firebricks, silica, steam; a hand brick maker (q. v.) who makes bricks of fire-clay, glazette, silica, etc., by similar process.

brick maker, hand; moulder; general term for worker who makes bricks by hand; includes brick maker (plop), brick maker (solid-faced), brick maker (moulded) (q. v.); sometimes also does work of battor (q. v.).

brick maker, machine; brick machinist; (i) see presser, pressman; (ii) attends to grinding, mixing, pressing, rolling, shaping, or other machine used in brick making.

brick maker, magnesite; (i) hand makes bricks of burnt magnesite, with or without a bonding material, by processes similar to those for brick maker (hand) (q. v.); also makes magnesite brick tubes by hand, magnesite mixture being rammed into metal tubes, which are used for lining furnaces; (ii) (machine) a pressman or presser (q. v.) who attends to presses used in making magnesite bricks, for steel furnaces, etc.

brick maker, mixed; a brick maker (hand) (q. v.) who makes mixed bricks in a mould or press and cuts to special shape with a template.

brick maker, moulded; bumper; makes more elaborate and highly-finished forms of hand-made bricks; throws a small ball of clay with great force into mould, and presses it well into corners with his fingers; repeats process until mould is full; scrapes off superfluous clay with a plane or stick, and turns out brick on to a pallet or rack for removal to drying chamber.

brick maker, paving; a moulded brick maker (q. v.) who specialises in making paving bricks.

brick maker, pressed; brick re-presser, re-presser; a brick maker (machine) (q. v.) who operates hand or power-driven press to shape and compress clay into bricks; hollow faces of bricks, mark name of manufacturer, or to make denser and

better finished bricks by repressing wire cut bricks made by brick-making machine.

brick maker, sand faced; sand stock brick maker; sand flatter; sprinkles stock board or bed with sand; plunges mould into a sand bed so as to cover surfaces with sand, and prevent sticking; places mould on bed; takes clod or prepared lump of clay, from attendant; throws it with force into mould; works it well into crevices with his fingers, and places mould on pugo, i.e., tray, for removal to drying chamber.

brick maker, slung; a moulded brick maker (q.v.) who makes paving bricks of clay.

brick maker, stop; takes clay enough to make one brick; forms it into a solid lump or clod by rolling it by hand on a table; throws it with great force into wetted and sanded wooden moulds; presses it red into crevices with his fingers; scrapes off superfluous clay with a stretched wire, or with a specially shaped stick called a stroker or with a flat wooden trowel called a plane; dusts with sand and turns out brick on to a pallet or rack for removal to drying chamber.

brick maker, special; a brick maker (q.v.) who makes special kinds of bricks, e.g., angle bricks.

brick maker, stable; a moulded brick maker (q.v.) who makes bricks used for paving floor of stables.

bumper; see brick maker, moulded.

chimney pot maker, chimney top maker; makes chimney pots, by pressing red or buff clay into a specially prepared wooden or plaster mould.

clinker maker; a brick maker (hand) or a brick maker (machine) who specialises in making bricks with a mixture of clay and ground clinker.

crane maker; ridge maker, ridge tile maker; a tile-maker (q.v.) making tiles for ridges of roofs, sometimes called crane tiles.

crest moulder; a tile maker (q.v.) who specialises in making crested ridge tiles for roofing by pressing clay into moulds by hand.

cutter, cutter-off; operates with hand lever, a wire cutting frame, which slices clay as it emerges on cutting table from brick-making machine of pug-mill type; sometimes also removes bricks to drying chamber.

finial maker; a tile maker (q.v.) who specialises in moulding finials, i.e., ornamental roofing tiles by pressing clay into a mould with his hands.

gas fuel maker, gas-fire fuel maker, gas-fire radiant maker; makes gas-fire fuel by pressing fine fireclay into specially prepared moulds with the hands or by using a hand screw trowel.

hip and valley maker; a tile maker (q.v.) who specialises in making hip and valley tiles, i.e., roofing tiles, by pressing clay into a mould with his hands.

lump maker; see block maker.

mitre maker; a chimney pot maker (q.v.) who specialises in moulding mitres, i.e., a form of chimney pot moulder, see brick maker, hand.

pan tile maker; a tile maker (q.v.) who specialises in making pan tiles by moulding in flat dies ready for stacking by horse (q.v.) or by presser, pressman; (q.v.) brick maker (machine); controls brick or tile press by levers; watches for faulty work; his dies are required; may remove pressed bricks from machine, when these are not automatically conveyed to drying chamber or tunnel.

quarry tile maker, quarry maker; a tile maker (q.v.) making flooring tiles, called quarry tiles, either by hand using a wooden mould, or by machine.

re presser, brick re-presser; see brick maker, presser.

ridge maker, ridge tile maker, see crane maker

stove back maker; a block maker (q.v.) making lumps or blocks of silica sand, instead of ordinary fireclay, for certain work owing to its extreme refractoriness.

stove block maker (for smelting furnace); see block maker.

stove back maker, gas stove back maker; presses fireclay into specially shaped wooden moulds with his hands; shapes back by hand, using a wooden mallet or operates a machine driven press which forces the clay down into box containing plastic clay.

tile maker; makes tiles, by hand or machine, by processes identical with those employed by brick-makers (q.v.), i.e., hand, machine, moulded, pressed, save that greater care is needed on account of thinness of article; uses either plastic or non-plastic clays; sometimes specifically designated, e.g., fine tile maker, paving tile maker, roofing tile maker.

tile maker, clinker; a tile maker (q.v.) who specialises in making tiles from a mixture of clay and ground clinker.

tile maker, field; a tile maker (q.v.) who specialises in moulding field tiles (small drain pipes) in a press.

tile maker, steam; a tile maker (q.v.) who makes tiles of fire-clay to be used in setting steam engines and boilers.

tunnel oven pot maker; makes parts of tunnel ovens, i.e., long ovens through which articles are slowly drawn, by pressing fireclay with the hands into specially prepared moulds; work similar to that of block maker (q.v.).

walk flatter; see brick maker, sand faced.

103.—FURNACE AND CRUCIBLE POT MAKERS.

condenser maker (zinc); see pot maker, zinc.

crucible maker, crucible worker; casting pot maker, crucible pot maker, furnace pot maker, melting pot maker, pot maker, smelting pot maker; makes crucibles by throwing mixture of fireclay and grog, i.e., lumps of hard-burnt clay, broken bricks, etc., ground to a powder, with or without a further admixture of plumbago on potter's wheel (a small revolving table) and working it up to desired shape with hands; (ii) makes crucibles by pressing paste into moulds, usually of plaster of Paris, with his hands, using simple pads and other tools; cleans up defects, and smooths out roughnesses and cracks with a knife or smoothing pad when article is partly dry; (iii) presses clay or pug into shape between top and bottom moulds in hand or machine press, as in crucible pot.

crucible maker, glass; see pot maker, glass.

crucible maker, plumbago; a crucible maker (q.v.) who makes crucibles from a mixture of refractory clay and plumbago (graphite).

fireclay moulder, fireclay worker; special terms for a pot maker in fire clay, e.g., fire brick maker (102), crucible maker, block maker (102), potter maker (q.v.).

pipe maker (slint); see pot maker, slint.

pot maker, casting pot maker, crucible pot maker, furnace pot maker, melting pot maker, see crucible maker pot maker; glass makers' pot maker; glass crucible maker; (i) mixes raw and burnt clay, kneads it and shapes it by hand in successive layers; clay from bottom mould is forced to be used in molting glass; allows time for drying between each layer, smooths out roughnesses and marks with a knife or smoothing pad; (ii) presses clay into shape between top and bottom moulds in hand or machine press to form pot.

pot maker, zinc; pot man, potter; condenser maker (zinc), pipe maker (zinc); a retort maker (q.v.) who

makes fireclay retorts and condensers for zinc smelting furnace.

retort maker, fireclay retort maker; (i) builds up successive layers of fireclay on a wooden frame, e.g., round, D-shaped, or oval, allowing time for drying between each layer; then moulds on flange, to which door will afterwards be attached, (ii) makes small retorts on machine similar to that used for making sanitary pipes of steel, or on a sanitary pipe maker, stoneware maker (100).

stopper maker (steel works); makes stoppers for steel ladles; removes sleeves and bands from used stoppers; bonds red to pattern, and puts on new firebrick sleeves and bands.

stopper maker, tinned maker (glass works); makes, by hand, fireclay blocks, with or without the use of moulds, for covering mouths of furnaces in which clay pots (used to melt "sodal" in) are baked at plate glass works; cf. stopper maker (138).

104.—POTTERS' MILL WORKERS; SLIP MAKERS AND ARKMAN.

ark man; see slip maker.

blunger, clay blunger; a slip maker (q.v.) who feeds and discharges machine, which draws up clay in water, with paddles, to form slip.

clay maker, clay miller, see slip maker.

clay preparer; clay temperer, tripper (pottery); prepares potter's clay for use in manufacture of certain classes of tiles, by putting it on dumping slabs of plaster which absorb moisture from clay before it is passed to tile presses; cf. dust-lifter (114).

dilatometer attendant; see grinder, clay.

flint mill worker, flint miller; see grinder, flint.

glass grinder, glass miller; feeds and attends mill grinding various ingredients of liquid glass used in pottery manufacture, working under direction of glass mixer (q.v.).

glass mixer; see slip maker (q.v.).

grinder, general term for a worker grinding materials in a mill, including clay grinder, flint grinder, marl grinder, mill man (q.v.).

grinder, clay; dust grinder, disintegrator, attendant; shovels lumps of pottery clay into pan, or hopper of disintegrator machine; watches smooth working of grinding machine, elevator and sifting screens; oils working parts, also cleans resultant fine dust in steel boxes with water.

grinder, flint; flint miller, flint mill worker; shovels flints into mill which grinds them to powder, for preparation of "slip" flint, to be used in making potter's clay, or for use in packing earthenware and china articles in saggers, in readiness for firing.

grinder, marl; shovels marl clay into mill to be ground up, ready for use in making red bricks, tiles, and saggers, i.e., fire-clay boxes in which ware is fired.

grog mill worker; shovels burnt clay (grog) into mill or use in making certain classes of fireclay and earthenware goods.

mill, millman, pottery millman, dust miller, feger miller, potter's miller, pottery miller; potter's material miller, stone miller; feeds with a shovel grinding mill, pan, or cylinder, which grinds up feger, china stone, or flint, used as raw materials in potteries; regulates supply of water and when grinding is complete, turns up through a trap or vent and allows it to flow down a trough to mixing ark or where desired; oils and cleans mill, pan or cylinder; occasionally assists in fixing or repairing runners and pulleys which grind material.

pan mill man (blast furnace); see temperer (blast furnace).

press emptier; a pressman (q.v.) in a slip-house, principally engaged in emptying "leaves" or flattened

sheets, of clay from canvas bags in which they are pressed.

pressman, clay pressman, filter pressman, press feeder, press filter, press worker; inserts press cloth or canvas bags into a filter press and starts and stops pump which pumps clay slip through nozzles into bags; turns off tap on nozzle as each bag is filled and requires flattened leaves, i.e. sheets of clay from filter press cloth.

pugger, clay pugger, pugma, clay pug man, pug miter, clay pug miller, pug mill man; throws flat slabs ("leaves") of clay produced by filter press into pug mill, which kneads them into a homogeneous mass, free from air bubbles, for use in pottery manufacture, for stoneware, thence or through freely dirt from steep into mill, cf. pug miller (brickworks) (119).

sliver; a slip house man (q.v.) who looks after machine which sifts clay "slip" by passing it through a fine lawn mesh, thus removing any flow of slip, and thence stoves to prevent clogging.

slip house man; general term for men who assist slip maker (q.v.) in slip house, where clay is mixed and prepared, including clay press man, clay pugger (q.v.).

slip maker, clay slip maker; ark man, clay maker, clay mizer; releases traps to run, by means of troughs from tanks, proper proportions of the various ingredients of pottery's clay which have previously been finely ground and made into a slurry with water, into a large tank or "mixing ark"; sets working machinery which thoroughly mixes ingredients; when mixed starts machinery to pump slip to filter press.

slip maker, glaze; glaze mizer; makes glaze slip, in which ware is dipped before being fired in glaze oven, by mixing "slips" of fritted glaze, china clay, china stone, ball clay, etc.

temperer, clay temperer (potteries); see clay preparer.

temperer (blast furnace); pos mill worker; prepares clay for plugging furnace top hole and tunds, i.e. air holes through which blast is forced into furnace; shovels clay into pan of tempering mill; adds spray of water from time to time till correct consistency is reached; controls mill by levers.

wedger, clay wedger; cuts lump of clay into pieces or wedges with wire cutter, and beats one piece of clay vigorously against another to make it homogeneous and free of air bubbles, for use in manufacture of highest class ware.

105.—POTTERS; WARE-MAKERS, CASTERS AND FINISHERS.

art ware maker; a caster, jollier, presser or thrower (q.v.) who makes ornamental articles.

baker maker, earthenware baker maker; a potter (q.v.) who shapes clay into the form of a deep oval article, called a "baker," by hand pressing.

basin maker; a jollier (q.v.) who makes basins with a jolly.

bath maker; a sanitary ware maker (q.v.) who makes baths usually by pressing, but occasionally by casting.

bath maker, earthenware; a sanitary ware maker (q.v.) who makes baths of earthenware; (rarely done, baths usually made of freelay).

barer; piercer; bores holes by hand, using steel pointer, tool, in soap drawers, fish-dish drawers, at the base of soap spoons, and in other perforated or hollow articles of clay-ware.

bowl maker, generally a jollier (q.v.) who makes bowls by jollieving process; may mould by hand or by jiggering process.

bowl maker, hand; a hollow-ware presser (q.v.) who specialises in pressing large bowls for toilet sets, etc.

howl maker, inventory; a caster or presser (q.v.) who makes inventory sanitary ware either by casting or by pressing.

bowl maker, muffin; a jollier or a presser (q.v.) who makes small bowls, e.g., sugar bowls, known in the trade as "muffin" bowls.

box maker; a presser or jollier (q.v.) who makes earthenware boxes for potted meats, tooth pastes, etc.

best maker, or for figure maker.

capsule maker; a thrower, presser or jollier (q.v.) who makes small free-cylindrical called capsules.

caster; pours clay or fire-clay "slip," i.e., clay ground in water, into moulds, which are sometimes revolved on a turntable during pouring; when enough clay has been deposited on inside surface of mould, rest of slip is poured out, and mould, with clay adhering thereto, is taken to drying room; sometimes specially designed, e.g., china presser, earthenware, plaster, hollow-ware, castor, hollow-ware, castor, parian castor, sanitary castor.

caster maker; sofa runner maker, stove roller maker; a turner (q.v.) who places a long tube of clay, formed by throwing or by casting, on lathe, and shapes it into small perforated cylinders, known as castors, runners or rollers, by applying a stool tool thereto as it rotates on lathe.

china dish maker; a flat presser (q.v.) who makes china ware dishes, generally by method of pressing.

china door furniture maker; a presser or turner (q.v.) who makes finger panels, door knobs, etc., by pressing or by throwing; sometimes specifically designated, e.g., china knob maker.

clay worker; general term for any worker engaged in preparing clay, or shaping articles therefrom, up to first firing (when clay ceases to be plastic).

clay worker, jollier (q.v.); a presser (q.v.) who makes pans for cloths by casting in a mould or by pressing.

cover maker; a jollier (q.v.) who makes covers for dishes.

cup maker; a thrower (q.v.) who makes cups, i.e., small crucibles used in assaying precious metals, by throwing, on potter's wheel, a paste composed principally of bone ash.

cup maker; a jollier (q.v.) who makes cups on a single or double cup jolly; may sometimes be a thrower, turner or caster (q.v.).

dish maker; a flat presser (q.v.) who makes dishes on a jigger or by pressing.

domestic utensil maker; a jollier (q.v.) who makes domestic utensils usually on a jolly.

edger; a fettler (q.v.) who smooths edges and joints of clay ware articles with a knife, leather or sponge before firing.

edger, tile edger; fettler, tile fettler; grinder; trims edges of tiles, and smooths out slight defects with a palette knife, also removes excess of glaze from tiles after dipping; cf. ware cleaner (118).

electrical fittings maker, electrical ware maker; a die presser, caster or a jollier (q.v.) who makes electrical accessories with a die press, or, more rarely, by casting or by jollieving.

electrical furniture maker; a presser (q.v.) who makes electrical fittings of earthenware, usually in a hand or mechanical press, by compression of powdered clay; in some cases, work may be done by throwing, see thrower.

encaustic ware maker; encaustic tile maker; a presser (q.v.) who makes tiles and other articles which are to be finished in an unglazed state and which are usually made of clays of different colours, and inlaid to form a pattern.

fettler, fettler of clay ware; trimmer; assists jollier, caster or presser (q.v.) by smoothing rough edges of articles before they are fired, and any removing irregularities with a knife, leather or sponge.

fettler, sanitary pipe fettler; grinder; fettles or trims drain pipes; smooths pipes on a vertical or horizontal cylinder turned slowly by mechanical power; applies small rubber or sponge to surface to smooth it and remove defects; removes cracks with a knife, makes grooves in socket and on spigot.

fettler, tile fettler, see edger, tile.

figure maker; a caster (q.v.) who makes statuettes by casting; or, more rarely, a presser (q.v.) who makes them by pressing.

figurer; moulds relief figures for plastic decoration of pottery; see flowerer.

finisher; (i) see fettler, sanitary pipe; (ii) see edger, tile.

finisher, terra cotta; a fettler (q.v.) who finishes, or makes perfect, decorative pieces of terra cotta ware, by hand, with steel and wooden tools, after they have been taken from mould and before they are fired in kiln.

finisher, terra cotta ornamental; ornamental finisher (terra cotta); applies hand-modelled ornament to terra cotta ware requiring highly carved figures or floral decoration, after article has been removed from mould by smoothing the clay and pressing on to the article.

flat ware maker; a jiggerer or a flat presser (q.v.) who makes flat ware, e.g., plates, etc., either by jiggering or pressing.

flowerer; makes relief flowers for plastic decoration of pottery by pressing clay into a mould with the hands.

flower pot maker, garden pot maker; a thrower (q.v.) who makes flower pots.

galley maker; a drain-pipe maker (q.v.) who makes galleys for sewers.

handle maker, handle man, handier; makes handles for cups, jugs, teapots, etc., by pressing clay into a mould with the hands and attaches them to ware by moistening both ware and handle and pressing them together.

hollow-ware maker; general term for any worker engaged in making pottery hollow-ware, including hollow-ware, castor, hollow-ware jollier, hollow-ware presser (q.v.).

hollow-ware squeezer, see presser, hollow-ware.

insulator maker; a presser (q.v.) who makes electrical porcelain insulators.

jigger, jiggerer; makes flat-ware such as plates, saucers; presses hat of clay on top of mould, already revolving on vertical spindle; smooths top surface with hand, brings down profile tool on to clay, thus shaping outside of flat ware, the mould shaping inside; cf. jollier.

jiggerer, sanitary; a jiggerer (q.v.) who makes sanitary appliances on jigger machine; work usually done by sanitary presser (q.v.).

jigger turner; turns jigger by hand, where mechanical power is not available, for jiggerer or jollier (q.v.) by means of a wheel which drives a belt connected with the jigger.

jollier; makes hollow-ware by pressing, and or slab of clay, or a plaster of Paris mould, which revolves on a vertical spindle; starts spindle and mould revolving and regulates speed; fixes profile tool in clamp and turns inner surface of article by pulling down profile tool into mould as clay revolves (outside being formed by mould) mould and article are then removed to stove by runner (119) (q.v.); cf. jiggerer.

junction maker; a pipe maker (q.v.) who specialises in making junctions for drain pipes.

majolica maker; makes, by casting, by pressing, or other process, tiles or other articles to be glazed with majolica glazes.

moulder, see presser; (term used in London and elsewhere, but not in N. Staffs).

muffin maker, muffin turner; a presser or jiggerer (q.v.) who makes small plates, technically called "muffins," by pressing or by jiggering.

ornamental basket maker (earthenware); a presser or a caster (q.v.) who makes baskets of earthenware by pressing or, for cheaper baskets, by casting.

ornamentation; decorates high-class ware by applying relief designs to ware in clay state.

pen maker; a presser or a jollier (q.v.) who makes kitchen pens by pressing or by casting.

perian maker, parian marble maker; a caster (q.v.) who casts perian ware, a ceramic ware resembling unglazed biscuit, used for statuettes, etc.

piercer, see borer.

plimble maker; a presser (q.v.) who makes small pottery pipes, uses one thread to run through in textile machinery, usually in a hand press by compression of powdered clay.

pipe maker, drain pipe maker, earthenware pipe maker, sanitary pipe maker, sewerage pipe maker; sanitary pipe machinist; makes drain pipes by operating pipe making machine; pulls wire to drive plunger; directs workers filling cylinder with clay and removing pipes when made; oils working parts of machine and watches proper working.

pipe machinist, sanitary, see pipe maker.

plaque maker; a presser (q.v.) who makes plaques usually by flat pressing.

plate-maker; a presser or a jollier (q.v.) who makes plates either by flat pressing or by jollying.

potter, clay potter; (i) general terms for a worker shaping articles of pottery in the clay state; (ii) sometimes used in an even more general sense, as applying to any person employed in any occupation in a pottery.

pottery furniture maker makes finger plates, door knobs, castors, and similar articles, usually in a mechanical press by compression of powdered clay.

presser; moulder; makes articles by pressing clay into mould; when two or more moulds are used for one article, fills one mould, straps on another and fills it, and so on, to make complete article; rabe joints in clay smooth with a sponge.

presser, die presser; makes tiles and other articles by placing finely disintegrated clay, which is slightly moistened, in a screw-driven press; releases wheel which presses die into box containing the clay dust and compresses it; occasionally, for certain types of tiles, uses plaster clay.

presser, flat; makes plates and other flat articles by pressing on a mould, to form inside of article, clay which has previously been made into a "bat" by batter (119) (q.v.).

presser, hollow-ware; hollow-ware presser; a presser (q.v.) who makes bowls, jugs, vases, pots, and other similar articles by pressing clay into moulds.

presser, plastic; a presser (q.v.) who works plastic clay with the hands into a mould rotating on a whirler, until mould is full.

presser, sanitary; makes certain classes of sanitary goods by pressing prepared fire-clay paste into a mould, usually of plaster of Paris, with his hands, using simple pads and other tools; examines partially dried article, touches up defects and smooths out roughness or small cracks.

presser, terra cotta; a presser (q.v.) who makes articles of terra cotta by pressing plastic terra cotta clay, i.e., a brown clay of special consistency, with the hands, using simple pads and other tools, in a mould which contains shape and decoration of article.

presser, tile; tile maker, dust tile maker; a die presser (q.v.) engaged in making tiles.

red ware maker; makes, by throwing, pressing or other process, articles such as breadpans, etc., out of red clay sound in various districts.

rum and vinegar jar maker; a thrower (q.v.) who makes jars for bottling rum or vinegar.

saddle maker; a die presser (q.v.) who makes saddles, or strips of clay with sharp edges, on which ware rests while in sugar, i.e., fireclay box in which ware is placed for firing.

sanitary tube maker, as for sanitary ware maker.

sanitary ware maker, sanitary appliance maker, sanitary vessel maker; (i) general terms for workers engaged in making articles of sanitary ware by any process, including sanitary castor, sanitary presser (q.v.); (ii) makes large articles, e.g., bathtubs, by gradually building them up, with lumps of clay by hand, with or without the use of moulds.

saucer maker; a figurer (q.v.) making saucers.

scalloper; a felter (q.v.) who trims, by hand with a knife, each piece of scalloped ware. In "green" or clay state, before it is pressed to sponger or fire-ware (q.v.).

shuttle eye maker; a die presser (q.v.) who makes small earthenware or porcelain rings, or "eyes," for shuttles of weaving looms, by pressing damp clay dust, i.e., finely disintegrated clay, in a die.

silica ware maker; a potter (q.v.) making silica ware, i.e., high class earthenware pottery of silica.

slip decorator, kitchen sink and trough maker; a presser or caster (q.v.) who makes sinks and troughs usually by pressing but sometimes by casting.

slip decorator; applies a pattern to pottery in the green state by blowing on coloured clay slips, e.g., by tube lining (see tube liner), or by sponging (see sponger), i.e., by compressing on a design in clay on surface of article.

smoother; (i) see sponger of clay ware; (ii) see sponger, flat; cf. smoother (118).

soft runner maker, see caster maker.

sponger of clay ware; smoother; removes, with a damp sponge, any irregularities from ware in clay state, i.e., before firing.

sponger, flat; smoother; a sponger of clay ware (q.v.) who rubs smooth any lines or inequalities in ware made by flat presser, plate maker or saucer maker (q.v.) in preparation for driving and firing.

sponser maker; a caster or presser (q.v.) who makes spouts of teapots, jugs, etc., and fixes them on to article with damp clay.

spur maker; a die presser (q.v.) who makes little earthenware "spurs" used to support articles which have been dipped or enamelled and to keep them separate during subsequent firing.

stickier-up; (i) fastens handles and spouts on to teapots, cups, jugs, etc., usually done by handle maker or spout maker (q.v.); (ii) puts together large ornamental articles made in two or more pieces, by moistening each piece and pressing together; (iii) fastens relief flowers, which have been moulded, on to ornaments.

still maker; a die presser (q.v.) who makes "stills" used to support dipped ware during slow firing, to prevent articles sticking together when clay melts; cf. spur maker.

stone bottle maker; a thrower or a presser (q.v.) who makes stone-ware bottles, e.g., ginocer beer bottles, hot water bottles, ink bottles, etc.

stone roller maker, see caster maker.

stoneware maker; a jollier, a thrower, a caster or a presser (q.v.) who makes iron jars, insulators, beer bottles and other similar articles of "stoneware," i.e., ware made from clays having a large proportion of free silica and usually requiring only a single firing; sometimes specifically designated, e.g., brown stoneware maker.

table maker (sanitary ware); a sanitary caster (q.v.) or a sanitary smoother (q.v.) who makes lavatory basins. Known in the trade as "tables."

tap and bend maker; a presser or a caster (q.v.) who makes taps, bend pipes, etc., of china, porcelain, or earthenware, used as fittings for vessels for holding acids.

teapot maker; a caster or a jollier (q.v.) who makes teapots by casting or by jollying.

terminal maker; a presser or a caster (q.v.) who makes porcelain terminals for electrical work.

terra cotta doctor; doctor, or makes good, family pieces of terra cotta ware after they have been fired in kiln, by filling in, or "stopping" holes or other imperfections with a mixture of plaster of Paris and clay slip, coloured or stained to match body of ware, using a knife or small stick of wood.

thimble maker; a die presser (q.v.) who makes "thimbles" of clay, which fit into one another, and are used to support, and to keep separated, dipped ware while it is being fired; cf. middle maker, spur maker, still maker.

thrower, throwster; works on a ball of clay rotating on a small revolving table or "thrower's wheel," and fashions therefrom all kinds of article shapes with his hands, generally without using any tools.

tile maker, see presser, tile; sometimes specifically designated, e.g., decorated tile maker, faience tile maker, fance tile maker, glazed tile maker, tessellated tile maker, vitreous tile maker.

tile maker, bisque; a tile presser (q.v.) who makes porcelain tiles which are not to be glazed.

tile maker, dust, see presser, tile.

tile maker, enamel; a tile presser (q.v.) who makes tiles which are afterwards decorated with enamel, i.e., "on glaze" decoration.

tile maker, encaustic, see encaustic ware maker.

turner; smother; clay ware articles, after they have been made, by pressing a piece of tow against them while they revolve on a small round table upon which is fixed a mould covered with canvas to hold the articles in position; manipulates revolving table by means of pulley gear worked with the knee.

trap maker; a sanitary caster or a sanitary presser (q.v.) who makes drain traps and pans for water closets either by casting or by pressing.

trimmer, see felter.

trough maker; a sanitary caster or a sanitary presser (q.v.) who makes troughs, either by casting or by pressing.

tube liner; a slip decorator (q.v.) who blows coloured slip through a tube on to ware while it is on lathe; sometimes done by turner (q.v.).

turner; heider; smooths, jolled, pressed or thrown ware by pressing a steel tool against it as it revolves on a lathe; often also does work of slip decorator (q.v.); sometimes specifically designated, e.g., china turner, china knob turner.

turner, insulator; a turner (q.v.) who turns electrical porcelain insulators on a lathe, after they have been thrown or pressed by insulator maker (q.v.), to complete shaping process and to produce a smooth finish before they are fired.

turner, muffle, see muffle maker.

twirler, see turner.

urinal maker; a caster or a presser (q.v.) who makes urinals by casting or by pressing.

vessel maker; a presser (q.v.) who makes large vessels to hold acids, generally by pressing.

ware maker; general term for any operative engaged in making pottery from clay in plastic state; includes plate maker, saucer maker, spur maker, still maker, muffle maker, dish maker, muffle maker; does not include those who make articles from liquid clay, or slip, by moulding process.

107.—DIPPERS AND GLAZERS.

dipper; glazer; dips biscuit ware, i.e., after first firing, or bricks, stoneware, or other articles, in liquid glaze, and turns each article about to ensure glaze running evenly over surface; glazes dipped ware on dipping boards to dry before firing; sometimes specifically designated, e.g., sanitary dipper, tile dipper, majolica dipper dipper, clay tobacco pipe; dips clay pipe in a kind of seal-glaze, e.g., clay tobacco pipe varnish (119).

glazer, see dipper.

mottler; gives a mottled appearance to ware, by applying coloured glazes thereto with a sponge.

sagger washer, sagger washer; pours a little thin glaze, i.e., sagger wash, into sagger, an open fireclay box in which ware is fired, and swirls it round to coat inside; may use a stumping brush to apply glaze where necessary.

108.—PAINTERS, PRINTERS, DECORATORS.

gold worker, see etcher.

aerographer; aerograph decorator; colour blotter, enamel blotter; blows liquid colour on to ware, by means of compressed air, using aerograph machine; sometimes uses a stencil to form pattern; cf. glass blower.

artist; does highest class of decoration, by hand painting, on fine domestic ware, on vases, or on other ornamental ware.

bander; applies, with a brush, bands of colour to ware as it revolves on a table.

bander and liner; combines duties of bander (q.v.) and liner (q.v.).

blower, colour; enamel blower, see aerographer.

blower, glaze; blows liquid glaze on to ware using glass bottle or an aerograph, which ejects glaze, by compressed air, as spray; cf. aerographer.

burnisher; polishes up best gold decoration on ware with an agate stone, after firing.

burnt; on, unlike liquid gold decoration, best gold comes out of kiln dill, and requires burnishing.

copyist (art ware), colour copyist; an artist (q.v.) who copies a special design or picture on to piece of earthenware.

decorator; general term covering any worker engaged in decorating ware by any method, including aerographer, painter, printer, etc. (q.v.).

decorator, aerograph, see aerographer.

decorator, tile; a painter (q.v.) who applies decoration to tiles, either in colour (under-glaze or enamel) or in gold.

designer, colour designer; works in decorating department of a pottery, where he designs new patterns, and suggests colour schemes in which they shall be carried out; prepares drawings from which printers work.

engraver on copper plate; generally controls all workers in decorating department.

duster, colour duster; (i) dusts, with a wad of cotton wool, freely ground colours on to ware, on to which a printed pattern has been transferred in an oil or adhesive substance; colours adhere to oil, and are removed from rest of surface, leaving pattern on colour; (ii) often used colloquially in sense of ground layer (q.v.).

enameller, enamel painter, painter; a painter or paintress (q.v.) who applies enamel, i.e., on glass colours, to glass ware; work may range from filling in patterns, already in outline, to hand painting.

enamel maker; grinds up metallic oxides, e.g., of iron, chromium, cobalt, tin, received as oxides and mixes in prescribed proportions with a flux of red lead, borax and flint; melts the frit ingredients together (cf. fritter (109)); may also grind frit in a mill (mechanical grinder) cf. enamel maker (105).

etcher (glazed ware); acid worker; cuts patterns, e.g., acid borders, on glass ware, i.e., after glazing, by means of printed transfer and acid bath; applies transfer to ware, e.g., to edge, and peels it off again; paints with a brush part of ware not covered by transfer with pitch or tar for purposes of protection; dips ware in bath of hydrofluoric acid by hand, wearing rubber gloves, and allows it to remain in acid for a certain time; removes ware from acid and rinses in bath of water; removes pitch or tar by washing with turpentine.

filler-in; an enameller (q.v.) who fills in colours in pattern already outlined on ware.

glider, a bander, copyist or liner (q.v.) who applies, with a camel hair brush, specially prepared gold paint to ware.

gold grinder; feeds and attends to mill which grinds metallic gold to powder to be made into gold paint for decoration of ware.

gold worker; applies, with fine camel hair brush, a decoration in "liquid gold" to china, earthenware, or tiles.

ground layer; paints pattern on ware in an oil or resinous medium, and then applies powdered colour, with a wad of cotton wool, which adheres to ware only where pattern has been painted.

liner, penciler, potter's penciler; applies, with a brush, lines of colour to ware as it revolves on a table; lines of gold are generally applied to ware by glider or tracer (q.v.).

liner, biscuit; a liner (q.v.) who applies lines of colour to ware in biscuit state, i.e., after first firing.

liner, tube; a liner or the decorator (q.v.) applying colour by squeezing it out of tube or container.

lithographer; (colloquially, see transfer); lithograph; cf. lithographic printer (329).

machine painter, printing; printing machines; a printer (q.v.) who attends printing machine in which pattern is engraved on cylinder.

marbler; a printer or transfer (q.v.) who applies design in imitation marble to ware, generally by printing and transferring.

mixer, printer's; printing mixer; mixes colours for printer (q.v.).

painter, paintress, colour painter, paintress; paints with a brush designs on ware either before glazing ("under-glaze" decoration) or after glazing ("on glaze" decoration), or applies coloured glasses as in majolica ware; sometimes specifically designated, e.g., flower painter, majolica painter.

painter, paintress, biscuit; under-glaze painter, paintress; applies under-glaze decoration to ware by painting, with a brush or sponge, designs on "biscuit" ware, i.e., ware which has been once fired, and before glazing.

painter, paintress, enamel; see painter, enamel.

painter, paintress, glaze; applies liquid glaze to part or whole of surface of ware with brush or sponge.

painter, paintress, tile; a painter or majolica painter (q.v.) who decorates tiles.

painter, paintress, underglaze; see painter, biscuit.

penciler, potter's penciler, see liner; obsolescent.

preparer, lithograph; assists transfer (q.v.) by printing face of litho with a size of Canada balsam.

printer; places prepared copper plate on stone to warm; covers plate with colour, excess of which he scrapes off with palette knife before rubbing plate with a cloth dabber; places sheet of soaked tissue paper on plate, and passes them both through rollers, thus transferring pattern to paper to be used in decorating ware.

printer, block; prints off transfer patterns from a block on to tissue paper, or sometimes direct to ware.

repaler, restorer; touches up, with a brush, glaze in places where article has been imperfectly glazed; cf. china restorer (369).

stamper; stamps patterns on ware with an India-rubber stamp, stamped with gold print or with liquid colour, sometimes specifically designated, e.g., gold stamper.

stenciller; an aerographer (q.v.) who applies a decorative pattern to ware with stencil.

tracer; a glider (q.v.) who applies fine gold lines to ware.

transferer, printer's transferer, printing transferer; arranges pieces of transfers, cut by cutter (q.v.), on ware, so that joins in pattern cannot be seen; rubs pattern on ware until pattern is transferred to ware; cuts own lithographic transfers when such are used.

transferer, lithograph; lithographer; applies lithograph or coloured transfers bearing pattern to ware, and, when pattern is transferred, washes off tissue paper of transfer.

109.—KILN AND OVEN MEN; KILN SETTERS AND PLACERS.

annealer, pot annealer (rebrake); a kilnman (pottery) (q.v.) who stokes and cleans fires of kiln, in which clay rebrakes and unglazed ware (in zinc extraction) are slowly cooled down.

baker (artificial teeth); sets trays of porcelain artificial teeth in muffle furnace; controls temperature of furnace, by action of firing or adjustment of dampers, etc., and takes out finished teeth.

bedder; places china flat ware in saggers (fireclay boxes in which ware is fired); cushions surrounding ware and then fills saggers with ground flint.

bedder and flinter; combines duties of bedder and of flinter (q.v.).

burner, kiln burner; American, kiln fireman, kiln stoker; is responsible for burning of bricks or tiles or firing goods in kilns; sees that "setting" has been properly done before lighting fires, and keeps kilns at correct temperature in small works and kiln works also acts as settler, drawer, etc. (q.v.), and generally attends to all operations at kiln.

burner (pottery), see kilnman (pottery) (term not used in North Staffordshire).

dottler, glaze dottler; packs saggers, i.e., fireclay boxes in which ware is fired, for glaze patches (q.v.) in works where flat articles are "dotted," i.e., kept apart during glaze firing by a dotting stick or thumb.

drawer, biscuit (pottery); a kiln drawer (pottery) (q.v.) working at biscuit oven in which first firing takes place.

drawer, enamel kiln (pottery); removes pieces of decorated ware from small enamel kiln after decoration has been fired.

drawer, glost (pottery); a kiln drawer (pottery) (q.v.) working at glaze oven, in which glaze surfaces are fired.

drawer, kiln drawer (bricks, etc.); (taken-out) (brick); removes "burnt," i.e., fired articles from kilns after they have been cooled to required temperature; often done by burner (q.v.).

drawer, kiln drawer (pottery); removes and carries away to bench, or assists placer (q.v.) in removing, saggers (fireclay boxes in which ware is fired) from ovens or kilns after firing; takes articles out of sagger and places on bench or in wheeled basket or wagon; in North Staffs, does not, as in other districts, include biscuit drawer or glaze drawer (q.v.).

drawer, see settler.

drawn, biscuit, see kilnman, biscuit.

drawn, enamel kiln, see kilnman, enamel.

drawn, hardening-on kiln, see kilnman, hardening-on.

fireman, kiln fireman (bricks, etc.), see burner, cf. *slaker* (119).

fireman, kiln fireman, oven fireman (pottery); burner, furnace *slaker*; see kilnman (pottery); feeds furnaces that heat enamel, hardening-on, or majolica kilns, and in districts outside North Stafford, biscuit or glost ovens; sometimes specifically named, e.g., biscuit fireman, glost fireman, sanitary fireman.

firer, kiln firer, see burner

flinter; flint sagger, i.e., fireclay box in which ware is placed for firing, with ware, and puts a small quantity of powdered flint between each article and each layer of articles to prevent fusion together, and packs remaining space with flint to prevent articles warping during firing.

fritter (pottery); mixes charge of ground ingredients of glass, i.e., borax, lead, etc., and pours from cruse, i.e. suspended scoop, into frit tank to be fused, runs resultant frit into water tank; clears tank of frit to frit bins.

glost putter-up; puts up pottery ware on trays as it leaves hands of dipper (107) (q.v.).

gormer (bricks, etc.), see setter.

kiln filler (bricks, etc.), see setter.

kiln filler (pottery); places ware, usually on "bats" or cast iron trays, and arranges them in kilns for firing; cf. *gincer*, setter.

kiln hand (bricks); assists burner (q.v.) and other skilled workers generally; includes drawer, taker out (q.v.).

kiln hand (pottery); general term for any person employed at or in connection with enamel, hardening-on, or majolica kilns; or, in districts outside North Stafford, with biscuit or glost ovens in addition.

kilnman (bricks, etc.); general term for any man employed about kilns, including burner, setter, drawer, and kiln hand (q.v.).

kilnman (pottery); burner, fireman (pottery), oven fireman; superintends firing of ware in kilns; decides temperature to which kiln shall be raised, how long it shall be maintained at that temperature, by what stages temperature shall be reduced, and when "chamunge" (by which mouth of kiln is blocked up during firing) shall be taken down; sometimes specifically designated, e.g., enamel kilnman, biscuit kilnman, hardening-on kilnman, terra cotta kilnman.

kilman, biscuit; biscuit fireman; a kilnman (pottery) (q.v.) who superintends the first firing process; cf. enamel kilnman, and hardening-on kilnman.

kilman, enamel; enamel kiln fireman, enamel kiln gloser; a kilnman (q.v.) who fires ware after decoration has been superimposed on glazed surface; cf. glost kilnman, hardening-on kilnman.

kilman, glost; a kilnman (pottery) (q.v.) who fires biscuit ware, after it has been dipped in liquid glaze.

kilman, hardening-on; kilman, printer's kilnman; hardening-on kiln fireman, hardening-on setter-in; a kilnman (q.v.) who fires "biscuit" ware which has been decorated before glazing, thereby burning decoration into the ware to prevent it running, etc., during glazing process.

oven man, glost; general term for workers employed at or in connection with glost ovens, including glost placer, glost fireman, and glost oddman (110) (q.v.).

oven man (pottery); general term for workers employed at or in connection with biscuit or glost ovens, including biscuit placer, glost placer, biscuit fireman, glost fireman, biscuit oddman (110), glost oddman (110) (q.v.).

placer (bricks, etc.), see setter.

placer, biscuit; packs clay ware in saggors (fireclay boxes); carries full saggors to biscuit oven for first firing, and stacks them in bungs (piles)

nearly up to roof of oven; also generally does work of biscuit drawer (q.v.); in china factories also acts as flinter (q.v.).

placer, enamel kiln, see kilnman, enamel

placer, glost; flint sagger, i.e., fireclay boxes in which ware is placed for firing, with "biscuit" ware which has been dipped in liquid glaze, and carries them to glost oven, piling them in bungs (piles) nearly to roof of oven.

placer, majolica kiln, see for placer, glost

placer, sanitary; a biscuit placer or a glost placer (q.v.) working on sanitary ware.

pot arch man; attends "pot arch" or kiln in which clay pots are annealed after drying, requires fires, gradually increasing the temperature for about a week, and decides when pots are ready to be removed from kiln.

putter-in (bricks, etc.), see setter.

pyrometer attendant (pottery); assists kilnman (q.v.) in reading and care of pyrometers; readings usually taken by kilnman himself.

setter, brick setter, kiln setter, setter-in, setter-up; dresser, gormer, kiln filler, placer, putter-in; places bricks, or saggors (fire-clay boxes) filled with tiles or fireclay goods, in kilns; after they have been dried, to be "baked" or baked, arranging them so as to use heat to best advantage, and to prevent damage to goods; cf. kilnman, and placer.

setter, pipe; a setter (q.v.) who sets pipes, e.g., drain pipes, etc., on level in brick kiln to be fired.

setter-in, hardening-on, see kilnman, hardening-on

stoker, furnace, see fireman, kiln (pottery).

taker-out (bricks), see drawer, kiln (bricks, etc.).

110.—KILN AND OVEN ODDMEN.

oddman, biscuit oddman, glost oddman; setter-up; takes charge of an oven in absence of biscuit or glost fireman (100) (q.v.); fetches coal, breaks up entrance of oven before firing, and opens it after firing, and does other odd jobs about oven.

setter-up, see oddman.

118.—OTHER SKILLED WORKERS.

acid worker; cleans specks and stains off finished ware with a small soap stick which has been dipped into hydro-fluoric acid and French chalk.

bad maker; (1) a butter-out (q.v.) who makes flat refractory slabs, for use as partitions in saggors or kilns; (2) see frame filler

batter-out (saggors), sagger batter-out; hammers out with a heavy wooden mallet on a fire heated metal table thick slabs of plastic material (mixed sagger mud and "grog") used for making saggors in readiness for sagger maker (q.v.).

bottom knocker, sagger bottom knocker; knocker-out; a sagger maker's attendant (q.v.) who mixes "bats" of coarse mud mixed with "grog," to form bottoms of saggors.

box maker; a sagger maker (q.v.) who makes fireclay boxes with open ends, for holding in place majolica tiles in kilns.

breaker, colour stone, see crusher, colour.

brusher, ware crusher; cleans up firing, by brushing away sand, dust, etc., and any unprevented with stiff brush; sometimes specifically designated, e.g., earthenware biscuit brusher.

clay tobacco pipe moulder, clay pipe maker, clay tobacco pipe maker, clay tobacco pipe moulder; presses prepared roll of partially dried pipe clay with an alied wire to form bowl, presses clay into one half of metal

mould; fits on other half and places mould into a hand press fitted with steel die which passes through the mould into clay and forms head and bowl; removes pipe from mould and withdraws wire; in some cases, fills each half of mould separately, pressing ware down centre of one half.

cleaner, biscuit; see sagger, biscuit, cleaner, glost; glost cleaner, see sagger, glost

cleaner, ware; (1) see sagger, biscuit; (2) see sagger, glost

colour drying kiln man, colour drying man, colour kiln fireman; attends fires used for drying pan, or "kiln" (see distinguished from an oven built for high temperatures) in which ceramic colours are evaporated.

colour dry sifter; knower; sifts ground colour material through a fine lawn sieve.

crank maker; fashions, by hand, fireclay stands, known as "cranks," having three feet, on which high-class articles of flat ware are placed for glost firing.

crusher, colour; colour stone crusher; colour stone breaker; breaks stone, by hand or power, into small pieces, in preparation for grinding, in ceramic colour-making establishment or department.

dental moulder; pours porcelain slip or powder, or presses paste, by hand into moulds, to make artificial teeth.

dresser; (1) see sagger, biscuit; (2) see sagger, glost

dust damper; spreads clay dust (dry powdered clay) on damp plaster slabs, to allow it to absorb moisture before being taken to press shop to be made into tiles, etc.; cf. clay preparer (104).

fat knocker; shakes powdered flint from between flat articles of china ware, after firing, by knocking edges of a pile of such articles on a leather pad.

flow maker; prepares "flow" in powder or cake form, to be put into glost saggors (open fireclay boxes, in which ware is placed for firing, after dipping in glaze) when "down" effects are desired, i.e., a blurred or indistinct outline to patterns (usually found in decorations carried out in blue, white, or green); mixes ingredients as directed and presses as press into small cakes of required size or fills powder into special cups.

frame filler, sagger frame filler; bad maker; a sagger maker's assistant (q.v.) who hammers out a uniform thick slab of material (mixed sagger mud and "grog"), with which he fills a frame for use of sagger maker (q.v.).

glaze kiln hand; feeds fire, and attends to frit kiln in which are "fritted" (fused) some of materials used for making potter's glaze.

greenhouse hand, rawn, worker; Aot house hand, warehouseman (q.v.) who takes charge of warehouses in which ware is stored in the "green" state, i.e., dried but before first firing, fetches, stacks and carries ware for potter's overlooker (101) (q.v.).

grinder, colour raw material; grinds raw materials in pan or other mill, in a ceramic colour-making establishment or department.

grinder, ware, see polisher, glost, horser; shapes roofing pan tiles, or other curved tiles, by placing slabs of clay received from gaultle maker (102) (q.v.) on a wooden "horse" or stand and pressing with another horse, the two horses being shaped convex and concave.

hot house man, see greenhouse hand.

idle back maker, see mould maker.

knocker-out (pottery), (*slang*), see bottom knocker.

lawner; (1) see colour dry sifter; (2) passes glass "slip" (fluid glass) through a sieve of fine silk lawn, or fine metal gauze to remove any large particles, as it flows into glass tub from tap of glass ark.

lead house man; general term for workers employed in any capacity in department where glasses are made. (117) (q.v.) and stored; includes glass grinder, fritter (109) (q.v.).

looker-over (pottery); inspects decorated, painted, or plain biscuit-ware, after first firing, but before glazing, and removes specks of colour, or other blemishes.

looker-to-ware; carries by hand articles made by thrower (105) (q.v.) to heated drying chamber and inspects to better (107) (q.v.) when firm enough to be handled; in some cases, carries article from drying chamber to turner (100) (q.v.) to be turned; sometimes does work of potter's over-baker (102) (q.v.).

millier, colour; colour millman, mixes ground colours for use in decorating pottery.

modeller, clay; makes clay models of images, statues, etc., for use in mould-making, either by building up model gradually from a mass of clay with his fingers, or by shaping the clay at a moulded form with wooden tools and with his fingers.

modeller (pottery); models new shapes of pottery for trade, working to plans made by himself or by head setter-out (q.v.).

modeller, terra cotta; ornamental modeller (terra cotta); models in plaster clay, by hand, using small hand tools, original pieces of terra cotta ware from which moulds are made, rarely an employee, but works in own studio and sells productions to manufacturers.

model maker (bricks and tiles); makes with fine clay, from designs of draughtsmen (302) (q.v.), models of ornamental bricks and tiles.

mosaic artist; works in a pottery, designing pavements, mural decorations, etc., to be carried out in mosaic.

mosaic cutter; tesserae cutter, tesserae maker; cuts up strip-shaped tiles of vitreous biscuit ware of other material into small blocks, to be used in making mosaic work, by scratching with a diamond cutter and breaking with a small hammer.

moulded maker, see mould maker.

mould maker, pottery, mould maker; sets block suiter (145), moulded maker, makes pottery moulds by pouring plaster of Paris into "cases" or on to "blocks" and allowing it to solidify.

mould maker (bricks and tiles); constructs wooden casing round a mould, casts bricks with suitable material; pours in plaster of Paris, which is allowed to set into shape of master mould.

mould maker, magnesite; a mould maker (q.v.) who specialises in making moulds of magnesite.

potter's maker; a potter (106) (q.v.) who makes pots, etc., following designs of head setter-out (q.v.), carried out by draughtsmen (302) (q.v.), and passes them to mould maker (q.v.) who makes moulds from them.

picker, pin; stick picker, thimble picker; examines tiles, slabs, spurs, etc., used to support articles for firing in glost oven, and rejects those that are unfit for further use.

polisher (bricks, etc.); smoother; polishes surface of ware with wood or metal to close up surface and make them less porous; cf. pantile polisher.

polisher, glost; ware grinder; removes small irregularities from surface of ware, after glost firing, with small emery wheel and polishes surface with wheels of softer materials, e.g., cork, polisher, pantile; brushes weather surface of pantile, after partially drying and thackening, with slip of finely prepared clay, and smooths over or polishes with flat pieces of wood having an edge shaped to form of pantile.

rubber, biscuit, see scourer, biscuit.

rubber, glost, see scourer, glost.

rubber, ware; (i) see scourer, biscuit; (ii) see scourer, glost.

sagger (or segger) maker; makes saggers, i.e., receptacles in which ware is placed for setting in kiln, by building up fireclay to shape required by hand, or, in some cases, by machine.

sagger maker's assistant, sagger maker's attendant; a sagger batter-out, bottom knocker or a frame filler (q.v.) who assists sagger maker (q.v.).

sanitary mason; cuts supply pipe holes and outlet openings in pipes, etc., after they have been fired, using hammer and special chisels, drilling machine, etc.

scourer, biscuit; china-ware scourer; biscuit cleaner, biscuit rubber, dresser, smoother, ware rubber; brushes powdered flint from china ware or powder from earthenware, after it has come out of "biscuit oven" in which it receives its first firing.

scourer, glost; china-ware scourer; slipper's cleaner, dresser, gloss cleaner, ware rubber, ware dresser, ware smoother; removes superfluous glaze adhering to ware after dipping, with a knife or with a wet sponge.

selector, ware; sorter, ware sorter; examines ware, under supervision of warehouseman (q.v.), and grades it into first (best quality), or seconds (inferior quality), and breaks up ware too damaged to be used; stacks ware, if working in plant shipping, moves irregularities by chipping with a "sartling" tool.

setter maker; a sagger maker (q.v.) who makes "setters," i.e., small fire-clay boxes in which fine china flat articles can be bedded slugs for biscuit firing.

setter-out, head; plans out work for modeller or model maker (q.v.) and for mould maker (q.v.); is assisted by draughtsmen (302) (q.v.) who embody his setting-out in designs.

slabber; cements together tiles and other shaped articles for hearths, kerbs, etc.

smoother, see polisher (bricks).

sorter, kiln sorter; sorts bricks, etc., after withdrawal from kiln, grading them according to quality, and rejecting imperfect ones.

sorter, ware sorter; see selector, ware.

stopper (biscuit warehouse); fills up cracks and holes found in ware during process of manufacture. cf. repainer, restorer (108).

tesserae cutter, tesserae maker, see mosaic cutter.

testery; applies special tests to finished articles, e.g. hydraulic tests to stone-ware bottles, electrical tests to high-tension insulators, etc.

threader-up (pottery); strings small electrical fittings or other small articles together on wire with a needle between each, so that all can be dipped (glazed) at once.

trimmer (artificial teeth); trims artificial teeth, after they have been moulded with beach, fly, and clock.

warehouseman; is in charge of warehouse where ware is stored, supervises assembly of sets of ware by ware selectors (q.v.) and issues them to various groups of workers, e.g., painters, dipper, potters; keeps large orders together, to ensure that all parts are finished at about same time; sometimes specifically designated, e.g., warehouseman, glost warehouseman.

washer, colour; removes impurities from ceramic colouring materials after grinding, by washing them with water in a fine sieve or through a filter.

white glaze worker; general term for any worker employed in white glazing process; includes slip maker (104), dipper (107), fireman (100) and add-on (101) (q.v.).

wag room boy; sorts bags and does any odd job in works.

washer, thrower's briler; a thrower's attendant (q.v.) who weighs out a lump of clay, and shapes it with his

hands into a ball for use of thrower (105) (q.v.); taken ware made by thrower to drying stove on a board.

bank oddman; fetches and carries materials or ware and does other miscellaneous labouring work in a pottery, for potters.

barrow loader; loads barrows with clay (or transport from pit to mixer, or from mixer to maker; or loads barrows at press, as bricks emerge; or loads barrows with bricks for conveyance from drivers to kiln; commonly also wheels bricks away, cf. wheeler, better, better-out; bats or tempers a suitably sized lump of pugged clay ready for jiggerer, potter or presser (106) (q.v.) who uses it with chess-shaped Plaster of Paris bat, turning it over and over during the process; may bat out by placing lump of clay in battening machine; cf. better (bricks) (102).

batterman; shovels chalk and clay in given quantities into a mill where they are ground to a batter or mill; regulates flow of water to mill to ensure that batter acquires correct consistency for slip.

battier, clay; see carrier, clay.

biscuit emptier, china biscuit emptier; removes china biscuit ware from baskets in which it has been carried from oven to china scoring shop.

bodler, clay, see fireman, slip kiln.

brickeroft labourer, brick labourer, see brickyard labourer.

brick lad, see brickyard boy.

brick factory; brick works; does various manual unskilled jobs in brickyard, such as "taking off" from press, etc.

brick kiln labourer, carries out general labouring duties in connection with a brick kiln; trims coal from bins, wheels coal to kiln mouth, etc.

brick kiln lad; a boy who carries out minor labouring duties in connection with a brick kiln.

brick maker's assistant, see moulder, etc.

brick sorter; sorts bricks into grades, i.e. first, second and third, according to quality after they have been fired in brick kiln; may also sort tiles.

brickyard boy; brickfield lad; boy employed in minor labouring work in brickyard.

brickyard labourer; brickeroft labourer, brick labourer; does any unskilled work in brickyard, such as wheeling, loading, and unloading, etc.

carrier; carrier-up; carries ware to warehouses or to potters, or carries ware designated according to ware handle, e.g., sanitary pipe carrier.

carrier, brick; carrier-off, flat carrier, kiln carrier, litter-off, off-carrier; takes off from brick-making machine and carries away bricks, etc. also places them on trolleys, flats or floor near at hand, or loads them on barrow and wheels them away to drying sheds or tunnels, or thence to kilns.

carrier, clay; clay bearer; carries clay from after press to pug mill machine, or from pug mill to thrower, poller, turner, or presser (105) (q.v.).

carrier, dust; dust drawer, dust mill feeder; carries powdered clay, e.g., clay dust, to shape where tiles or other articles are made by compression of powdered clay.

carrier, flat, see carrier, brick.

carrier, kiln; (i) see carrier, brick, (ii) carries ware to hardening-oven (enamel kilns, to be set in; helps kilnman in setting in).

carrier-off, see carrier, brick.

carrier-off, dipper's (brick); dipper's turner-off; carries ware, bricks, etc., from dipper (107) (q.v.) to drying flat, rack, or barrow; cf. dipper's assistant (pottery).

carrier-up, see carrier.

carrier-up, biscuit; carries ware, drawn from biscuit oven (in which first firing takes place), to biscuit warehouse.

119.—OTHER WORKERS.

clasp man; builds, fires and generally attends to "champs," i.e., a rough kind of kiln built of the bricks themselves, and of layers of coal, and covered with clay to retain heat; when bricks are fired, breaks away covering and removes bricks.
clay treader; mixes clay and spreads it on floor; sometimes it and treads it with bare feet to render it homogeneous for making into crucibles; seldom done by crucible maker (103) (q.v.).

cleaner; removes, by hand, shives and magnets from washing machine (which takes out impurities from clay slip); washes them with hose and sponge and replaces in machine; sometimes done by slip maker (104) (q.v.).

crank; arranges flat ware on "cranks" (fireclay stands) for glaze firing.

crowder; a brick carrier (q.v.) who loads hand made bricks on "crowding barrow" for conveyance to dryer or kiln.

cutter, paper cutter; assists printer (108) (q.v.) by cutting up into suitable pieces sheets of paper containing printed or lithographed designs, for use of transferer (108) (q.v.).

day girl, see brick factory girl.

dipper's assistant, dipper's boy (pottery); (i) he is a dipper (107) (q.v.) for taking off articles as they are dipped; (ii) see putter-up or, taker-off.

drawer, dust, see carrier, dust.

dust man, dust mill hand; general terms for workers employed at or in connection with "dust" mill, including dust carrier, clay grinder (104) (q.v.).

feeder, clay; feeds with a shovel, pan of grinder, mixer, pugmill, or other brick making machine, with clay, or regulates automatic feed by means of lever; cf. mill top man, pugger (footery) (104).

feeder, pan; feeds pan of grinding-mill, in brickworks.

feeder, pot mill; feeds pugging mill with clay to be used by glass pot maker (103) (q.v.); cf. pugger (104).

finisher, clay tobacco pipe; scrapes marks of mould connections off pipe with knife; rejects all pipes which show a set free from obstruction.

fireman, slip kiln; slip house stove fire; clay heater; stokes, cleans and attends to firing of furnaces for use in drying excess clay in slip, or fire, stove; stokes, cleans and attends to firing of stoves in "green house" in which pottery is dried before baking.

gatherer; removes dipped ware from "mangle" (series of stationary or travelling rollers) on which it has been placed to allow glaze to dry before firing, and puts ware on glaze placer's bench or on board to be carried to glaze placer (109) (q.v.); cf. taker-off.

glaze oven labourer; wheels coal, and does other unskilled work at or in connection with glaze oven.

grog mill worker; attends to mill which grinds "grog" (lumps of hard-burnt clay "bits" or broken brick) to a powder, for admixture with clay in making certain kinds of brick, or stoneware.

thunderer, mixer; in stoneware, mixes clay for use of potter (106) (q.v.).

hooker-on, see pusher-on.

lather, lathe treader; assists china turner (104) (q.v.) by working treadle of lathe and handing ware.

layer-down; a brick carrier or a wheeler (q.v.) who lays down bricks, etc., in drying sheds and tunnels.

lift-off, see carrier, brick.

tloader; loads articles of earthenware, fireclay, etc., in wagons or railway trucks.

machine man, machine minder; general terms for worker who operates one or more machines in brickworks, e.g., grinding-mills, mixers, pug mills, etc.; includes grog mill man, mixer, pug miller.

malaxerman (plate glass works); a pug miller (q.v.) who mixes fire-clay, of which pots (to melt glass in) and treads (clay coverings for mouths of furnaces) are made, or mixer; mill top man? (i) superintends the work of feeding clay grinding plant with clay which is tipped from wagons into hopper; watches automatic feed from hopper into grinding pan and elevators which carry ground clay to top screen at top of mill; (ii) sees that screens or sieves work properly and oils machinery; (iii) feeds clay to pan with shovel, where feed is not automatic.

mixer; a pug miller (q.v.) who attends to mixing machine, which mixes clay, lime, or ganister, etc.

mixer-boy; assists mixer (q.v.) generally.

moulder, clot; slop moulder; brick maker's assistant; prepares table and moulds for brick maker (102) (q.v.); works and forms lumps of clay ("clots") for his use, and assists either maker generally.

mould runner; (i) a puger (q.v.) who carries moulds to maker (102) (q.v.); (ii) takes moulds containing ware shaped but not fired, from joller or presser (105) (q.v.) to drying stove, or shillings, on a board by hand.

nipper; tile maker's assistant; nips or turns up two small pieces of ware by pressing with his thumbs to form "nips" or ears on edge of roofing tile (to facilitate its being fastened in position); carries to drying chamber and lays on floor or shelves.

oddman; general term for any unskilled labourer employed in brick or pottery works; cf. oddman (110).

off-bearer, see carrier, brick.

tomaker, see bonmaker.

oven labourer; wheels coal, or does other unskilled work about biscuit or glaze oven.

page, pager; holds tools, and hands them to maker (102) (q.v.) as required; makes lumps or "clots" of clay, washes moulds, and helps maker generally.

picker, clay; examines semi-plastic clay, and picks out from it stones, earth, or any other impurities.

pitcher; stacks bricks or other articles in drying sheds, in kilns, or in ware-house.

pitcher, bullet; carries lumps of clay in a brickfield.

pony; brick carrier; drives horse or pony used in machines driven by horse-power.

pot bank labourer, pot bank worker (North Staffs); general terms for any labourer or worker in a pottery factory (called a "pot bank" in North Staffs).

potter's assistant, potter's attendant; general terms for any worker who assists potter (103) (q.v.), including mould runner, fettler (105), tower (105), hat maker (118), lathe treader, etc. (q.v.).

potter's helper (man); assists zinc pot maker (103) (q.v.) by bringing and preparing clay, according to size of pot being made, and taking away finished article.

pug boy; assists pug miller (q.v.) generally.

pug miller, pugger, pugman, pug mill attendant (brick work); attends to feeding and working of pug mill (clay tempering machine) in brick making sheds or throws lumps of clay into pan; adjusts water spray to add sufficient water to give required consistency; cf. pug miller (pottery) (104).

puller-up; recovers clay wagons as they are heeled from pit by means of a power-driven endless chain and pulleys to mill top; in some cases, where power is not used, winds up chain by hand, using a windlass.

pusher-off, pusher-out; hooker-on; starts loaded clay wagons from pits on power-driven endless chain, which carries empty wagons to descent by gravitation, on light railway track; often done by puller-up (q.v.).

putter-up, dipper's putter-up; dipper's assistant, dipper's boy (pottery); hands up ware, e.g., bricks or bisquit ware, to dipper (107) (q.v.) and assists dipper generally.

retort dresser (brickyard); carries clay and scrapes inside of brick kiln or retort with a knife.

riddler; (i) attends to mechanical riddle attached to clay-breaking machine; (ii) riddles clay, after grinding, with screens, sieves, or riddles; removes coarse particles to mill; cf. mill top man.

ridge-runner; carries ridge-tiles from ridge-tile maker (102) (q.v.) to drying-sheds or tunnels.

sizer; raises tempered mass for silica bricks from floor to bench on which moulder works; sometimes done by clay weatherer (q.v.).

roller, clay; attends to clay rolling machine, i.e., edge runners or cylindrical rolls for crushing, breaking down, and tempering plastic clay, usually also does work of clay scraper (q.v.). cf. pug miller, clay grinder (104).

roller, clay tobacco pipe; makes rolls of pipeclay for clay tobacco pipe moulder (118) (q.v.).

runner, clay runner; serving boy, general term for worker who carries wodge of clay from slip house to potter's bench, feeds potter (103) (q.v.) with moulds and removes mould, etc., when processes are complete.

sand paperer, clay tobacco pipe; clay tobacco pipe scourer; smooths surface of pipes with sand-paper after burning.

scraper, clay; removes clay from edge-runner mill or mixer with a specially formed long-handled shovel unless machine is entirely automatically fed, and provided with a bottom discharger; usually done by clay roller (q.v.).

serving boy, see runner.

setter; (i) sifts powdered flint in a hand sieve, or by shovelling against a screen, after it has been used for bedding or flinting, to remove any large particles of mixed flint and clay that may have been formed; (ii) sifts "dust" (powdered clay) which has been ground in a disintegrator, through fine sifting machine, if necessary, damp ready for the presser (105) (q.v.).

skintier; opens out "backs" or stacks of half-fired bricks in dry-stack, into such formation as will allow free passage of air; usually done by stacker (q.v.).

stacker; stacks bricks in drying shed as they come from maker (102) (q.v.) in such a manner as to allow free passage of air.

stacker, clay; stacks clay in readiness for use of moulders and pressers (106) (q.v.).

stoker (brickyard); cleans, fires, and generally attends to boilers and furnaces of dryers.

taker-off (bricks); takes off bricks from pressing machine or from brick wire-cutting machine and places on trolley for removal to drying chamber or kiln.

taker-off, dipper's (bricks), see carrier-off, dipper's.

taker-off (pottery); takes dipped ware from dipper (107) (q.v.) and carries it to drying stillages; cf. gatherer.

thrower's attendant; removes article from thrower's table when it is made, and takes it to turner (105) (q.v.) to be turned on lathe, or to drying stove to be dried; sometimes also acts as helper (q.v.).

thrower's benchman (stoneware); a thrower's attendant (q.v.) who also does work of baller (q.v.).

tile lifter; carries tiles from maker (102) to placer (109) (q.v.).

tile maker's assistant, see nipper.

turner's attendant; brings ware to turner (105) (q.v.) to be turned, and then removes it to drying stove.

tunloader; unloads raw material, fuel, etc., from trucks in siding.

varnisher, clay tobacco pipe; applies generally with a brush, a varnish which dries hard without firing; cf. clay tobacco pipe dipper (207).

wad squeezer; throws old bricks and clay into a small pug-mill, which ejects long sausage-like wads of clay or grog (sari), used for sealing up interstices between raggars when in oven, thus preventing entry of oven gases, etc., into raggars.

wagon filler, wagon loader; loads finished articles on wagons for removal.

washer, clay tobacco pipe; washes finished pipes prior to packing.

waterer, clay; tempers clay by sprinkling it with water, and either kneading it by hand, or treading it with bare feet; also covers clay with wet cloths for the night; may also tread clay, see clay treader.

weatherer, clay; disintegrates clay by spreading it out in layers to expose it to weather, examining and turning it from time to time as needed.

wheeler; wheels raw materials, in barrels, to makers, or wheels finished goods away to dryer or to kiln, or from kiln to stacks or wagons; sometimes specifically designated, e.g. wheeler-away, wheeler-off, wheeler-deck, clay wheeler, crest wheeler, grog wheeler.

wheeler, dust mill, see carrier, dust.

wheel turner; turns a handle which makes thrower's wheel revolve; obsolescent.

Sub-Order 2—Makers of Glass and Glassware.

121.—FOREMAN AND OVER-LOOKERS.

batch foreman; (i) supervises mixing of batches by pot makers (132) (q.v.), and pot filling; ensures correct proportions of ingredients go into pots at right intervals; sees that tanks are kept clean; (ii) (glass bottle works) engages and disengages batch mixers; determines formulae for glass; supervises weighing of batch ingredients; watches metal in pot to ensure up to standard, adds colouring, if necessary to tint.

cutting shop foreman; (i) (table glass, etc.), supervises work done in cutting room; receives table or decorative glass, notes instructions for cutting and distributes work among cutters (129) (q.v.) according to skill of each; examines, etc., finished work; (ii) (bottles) examines fitting of stoppers in necks of bottles; rejects faulty work; is generally responsible for stoppers (133) (q.v.).

gaffer (slang); is in charge of workmen in any department, e.g. principal blower (q.v.) and head of gang, shop, or "chair"; (bottle making) is bottle finisher or bottle maker (124) (q.v.); (table glass making) is maker or worker (124) (q.v.).

overlooker, see workshop foreman.

tank manager; an under manager responsible for one tank of molten metal and for workpeople engaged about it, etc., glass blowers (124), glass gatherers (123), and block makers (139); superintends, e.g., filling, running, cleaning of tanks; ensures tank levels and temperatures maintained.

workshop foreman (optical glass); overlooker; maintains and selects stock in glass stock room; works-out, from instructions received, particulars of cutting, grinding, etc., to be done and sends particular with glass required to workshop concerned; organises workmen; and is responsible for efficient production; examines and tests lenses and prisms produced, by measuring, Newton colour ring test, etc., as necessary; keeps record of work sent out.

122.—TEAZERS AND FOUNDERS.

founder; melter, melter; (i) supervises filling of pot with "batch" and "cullet"; adds successive relays of material as mixture shrinks, until pot is filled with molten "metal"; draws small portions of "metal" on iron rod, to ascertain if it is melted clear, and free from "seeds" and bubbles of gas; (ii) (bottle factories) does above; also checks furnace-furnace keeper, furnaceman; (i) see stoker; (ii) where furnaces oil heated, watches burners and turns tap on or off to regulate oil flow.

kiln worker; shovels coal or coke into circulating kiln furnaces; sees that kilns are used in correct rotation, allowing each to cool-off in turn; reports any damage to kiln, melter, see founder; cf. melter (139), melter, see founder.

optical glass maker; makes glass suitable for optical instruments; slowly adds specially mixed ingredients to already crucible in furnace heating up glass formed, stir it to render homogeneous and free from bubbles; allows to cool slowly in furnace; when glass is cold, breaks crucible and examines block or blocks of glass for flaws.

stoker; watches, during night, pots containing molten glass, and regulates temperature by stoking, cf. stoker, or by adding fresh glass.

skimmer, pot skimmer; skims all impurities, bubbles, etc., from surface of "metal" ready for gathering (132); only employed in large firms; elsewhere done by blower (124) or, less frequently, by stoker (q.v.).

stoker; (i) (glass making) furnaceman, furnace keeper; shovels coal or coke into furnace; rakes-out clinker to improve draught; sometimes also acts as skimmer (q.v.), or, batch mixer (138) (q.v.); (ii) (bottle making), see founder; (iii) in small glass works often acts as lehrman (136) (q.v.); places articles on pots and into annealing lehr or annealing oven; allows annealing over fire, as needed, as for stoker, except that, when in charge of large furnace, sometimes regulates heat by means of gages.

123.—GATHERERS.

ball blower; makes foundation for tube drawing; gathers on end of blowing iron, quantity of "metal," i.e., molten glass, shapes ball of metal by working it backwards and forwards on a marver, a steel plate or stone slab; creates space inside of foundation by blowing gently into blowing iron, and hands-on iron and foundation to coverer (124) (q.v.). gatherer, glass gatherer; takes up molten glass from furnace on heated end of iron blow-tube; rolls it on a marver, or on a block, to remove excesses; and hands it, on the tube, to blower (124) (q.v.); cf. marver bottle gatherer (125).

ledler; ladles molten glass, metal, into frames or trays used in making plate glass.

124.—BLOWERS AND FINISHERS (not Machine Hands).

blower; assembler; duties vary greatly; in general, when not himself gathering, takes down-tube with glass attached from gatherer (125) (q.v.) and blows with his mouth down tube to shape glass into required shape, with or without aid of mould, holding mould closed over glass until glass fills mould; when not using mould, rolls glass on polished iron table, marver, to assist shaping; measures glass for size with calipers; in some branches of glass manufacture, often carries production further, e.g., does work of foot maker (q.v.), using blowing iron, marver, bones, pinces, and punty rods; sometimes specifically designated, e.g., bottle blower, chemical glass blower, electric bulb blower (q.v.), cf. machine glass bottle blower (126).

blower, bottle; bottle hand; a blower (q.v.), in bottle branch of glass trade, blows glass and hands it to bottle maker (q.v.).

blower, chemical glass; scientific and chemical glass blower; blower (lamp), a male lamp blower (q.v.) making complicated scientific and chemical glassware by combining work of several girl lamp blowers, using lamp and hand tools similarly. blower (lamp); tube drawer; (i) heats tubes or other glass formations in lamp having from one to three jets, heat of which she controls, and forms chemical, waste, and tubing, stoppers, U tubes, by shaping plastic glass in flame, using tweezers, files and other hand tools; (ii) see blower, chemical glass.

blower, lamp (electric), see maker, bulb.

bottle hand, see blower, bottle.

bulb worker; see maker, bulb; cf. bulb worker (316).

chairman, see maker.

coverer, parison maker; gathers, from furnace pot hole, more glass upon foundation received from ball blower (125) (q.v.), until, by size and weight, he decides sufficient glass gathered; shapes to form parison, or thick cylinder for drawing, by working glass to and fro on marver, a steel plate, while rolling blow-iron in his hands to spread glass evenly; hands-on to drawer (138) (q.v.).

finisher (glass bottles); bottle worker; a maker (q.v.) in glass bottle trade; receives bottles from two or more blowers (q.v.), until, by size and weight, he decides sufficient glass gathered; shapes to form parison, or thick cylinder for drawing, by working glass to and fro on marver, a steel plate, while rolling blow-iron in his hands to spread glass evenly; hands-on to drawer (138) (q.v.).

finisher (glass bottles); bottle worker; a maker (q.v.) in glass bottle trade; receives bottles from two or more blowers (q.v.), until, by size and weight, he decides sufficient glass gathered; shapes to form parison, or thick cylinder for drawing, by working glass to and fro on marver, a steel plate, while rolling blow-iron in his hands to spread glass evenly; hands-on to drawer (138) (q.v.).

finisher; (i) makes crown glass by rotating, in his hands, bulb of glass on attached pontil rod, at mouth of auxiliary furnace, until it spreads out, by centrifugal force, into circular disc; (ii) plain glass trade, a servitor (q.v.) who rotates glass, as above, until blower is ready; (iii) stained glass trade, rotates, as above, to burn-in colour.

finisher; (i) makes crown glass by rotating, in his hands, bulb of glass on attached pontil rod, at mouth of auxiliary furnace, until it spreads out, by centrifugal force, into circular disc; (ii) plain glass trade, a servitor (q.v.) who rotates glass, as above, until blower is ready; (iii) stained glass trade, rotates, as above, to burn-in colour.

finisher; (i) makes crown glass by rotating, in his hands, bulb of glass on attached pontil rod, at mouth of auxiliary furnace, until it spreads out, by centrifugal force, into circular disc; (ii) plain glass trade, a servitor (q.v.) who rotates glass, as above, until blower is ready; (iii) stained glass trade, rotates, as above, to burn-in colour.

finisher; (i) makes crown glass by rotating, in his hands, bulb of glass on attached pontil rod, at mouth of auxiliary furnace, until it spreads out, by centrifugal force, into circular disc; (ii) plain glass trade, a servitor (q.v.) who rotates glass, as above, until blower is ready; (iii) stained glass trade, rotates, as above, to burn-in colour.

finisher; (i) makes crown glass by rotating, in his hands, bulb of glass on attached pontil rod, at mouth of auxiliary furnace, until it spreads out, by centrifugal force, into circular disc; (ii) plain glass trade, a servitor (q.v.) who rotates glass, as above, until blower is ready; (iii) stained glass trade, rotates, as above, to burn-in colour.

maker, crown glass; a maker (q.v.) who rolls crown, or thin sheet, glass on an iron table by means of heavy steel rollers to produce a perfectly level surface.

maker, shade; a blower (q.v.) who specializes in making lamp-shades.

manbler, see blower.

mark, see pointer, painter, see

sculptor, cf. painter (130).

sculptor; receives article, e.g.,

flower stand, from blower (q.v.), heats

in furnace and shapes with wooden

hand tool to form therein cracked

edges.

servitor; painter, painter, painter;

second in gang or "chais" in hand

made glass trade; peaches duties vary;

usually, receives "metal" from foot

maker (q.v.), casts it to body of

article and finishes attachments, e.g.,

wine glass stem, using hand tools,

measures blown bulb with compasses

and chisels for shearing by worker

(q.v.); cracks-off superfluous glass by

touching with cold moistened iron

tool; sometimes also makes foot, cf.

foot maker.

splitter, cylinder splitter, glass

splitter; splits cylinders of sheet

glass with a diamond cutter, as they

lie on dose of flattening kiln, or less

frequently, by placing along inside

length a long red-hot iron rod touch-

ing glass, and then chaffing line of

contact with touch from cold iron

rod; removes split cylinders to hotter

zone of kiln to soften and open out

flat.

tube drawer, see blower (lamp).

worker, workman; a maker (q.v.) in

hand made glass trade; arrange work

of service, foot maker, taker-out (139)

(q.v.); receives article from servitor,

heats in furnace, shears, where

marked, re-bends, and smooths sheared

edges; opens-out and otherwise shapes

body of article by eye alone, using

calipers, compasses, measuring rod,

to obtain correct dimensions; releases

article from clench wherein secured,

for taker-in (139) (q.v.).

125.—MOULDERS AND PRESSERS.

bottle machinist, bottle maker, bottle

moulder; machine bottle presser,

machine glass bottle blower; machine

glass bottle moulder; (i) gathers

melted glass, "metal," on rod and

transfers to moulding machine, judg-

ing amount required, pushes "metal"

into position for mechanical

filling, starts machine, which fills

mould and blows bottle by compressed

air; precise duties vary according to

type of machine used; (ii) adjusts an

oven machine with great care; sees

that blank moulds and finishing

moulds are at same temperature, ad-

justing wind gauge for this; regul-

ates oil feed and other working

parts, then starts machine which

automatically fills moulds by suction,

blows bottles by compressed air and

releases bottles into annealing kiln.

glass tile maker; or for moulder.

semi moulder; heats pieces of plate

glass in furnace; and moulds them in

die into form of lenses.

lustre maker, lamp lustre maker; a

moulder (q.v.) who makes lamp

lustres.

machine bottle gatherer, machine

glass bottle blower, machine glass

bottle moulder, see bottle machinist,

cf. gatherer (125).

moulder, presser, pressed glass

maker, puncher; (i) rolls out molten

glass poured into trays specially pre-

pared for manufacture of plate glass;

(ii) pours molten glass, "metal," into

moulds, or cuts glass rough by

gatherer into pieces for moulds, using

above; pulls lever operating plunger

on machine which makes pressed

ware, e.g., glass tiles, pavement

lights, railway signal lenses; usually

does not set machine; this done by

litter (130) (q.v.).

railway signal lens maker; a

moulder (q.v.) who makes railway

signal lenses.

stopper and marble maker; a moulder

(q.v.) who makes stoppers and marbles

for aerated water bottles in multiple

moulds.

tablet maker; a moulder (q.v.) who

makes glass tablets for signs, door

plates, etc.; also makes up, as re-

quired, from moulds into which

molten glass is run, from suitable

metal parts which are screwed or

keyed together.

126.—ENGRAVERS AND CUT GLASS WORKERS.

acid bath worker; fills metal cage

with glassware, immerses in acid bath

to etch designs, etc., and removes

after an immersion of stated time.

acid polisher; immerses glass in hot

water to remove grease, and polishes

by dipping in acid, washes same and

acid from glass for scrubbing purposes

and after final immersion, drains

glass and polishes on cloth.

hader, glass hader; as for etcher

(electric lamp); cf. sand blaster.

brilliant cutter, glass brilliant

cutter; marks pattern on piece of

cut glass to be cut; presses glass

against revolving stone wheel and

moves it about to cut faces, in mak-

ing a brilliant.

cut glass worker; general term for all

workers engraving, cutting, etching

and bevelling glass ware.

cutler (flint glass), glass cutter;

an engraver or an intaglio cutter

(q.v.); sometimes also does work of

marker-out (q.v.).

drop cutter, glass drop cutter, glass

lustre cutter; glass lustre load

(chandelier); specializes in cutting

drops or lustres for chandeliers, etc.;

as for cutter (q.v.) work less skilled.

embosser; etcher; marks-out design,

using bristles, rollers, etc.; cuts

lines of design with knife and

straight edge and fills in remainder

of surface with embossing block; ex-

poses glass to acid fumes or pours

on acid, to etch design, or, coats sur-

face of glass with wax, traces design

on wax, then removing wax and ex-

posing glass as above.

engraver; engraves designs on glass

with small copper disc, mounted on

special form of lathe; mixes abrasive

with oil, etc., and applies, on a pedestal,

to disc; works lathe by power or by

foot treadle; holds glass against disc

and builds up design by series of

scratches, etc.; works usually by eye

only, from sketch; sometimes first

draws guiding lines on glass; often

also does work of intaglio cutter

(q.v.), and is also able to do work of

engraver, glass measure; engraver,

thermometer (q.v.).

engraver, glass measure; an en-

graver (q.v.) who holds measure con-

taining fluid, handed-on by gradu-

ator (125) (q.v.), against revolving

copper disc and in marks fluid level,

conducting fluid through in con-

junction with graduated, finally en-

graves figures and symbols, e.g.,

drachms.

engraver, thermometer; places

thermometer in ice bath and hot

water bath respectively, and with

index ink, marks freezing and boil-

ing points on thermometer tube;

divides space between these points

into intervals, either using ink and

straight edge and then engraving

graduation lines as for engraver, glass

measure; or, etching divisions as for

etcher (q.v.).

etcher; stamper; (i) see embosser,

(ii) chemical ware—thermometers,

etc.) coats article with wax; adjusts

mechanism of a machine to mark

surface of required width and, if

required, each fifth or tenth degree,

or other distinguishing mark; places

article in position and sets machine

in motion, by treadle or switching on

power drive, causing needle in

machine to cut intervals in wax; then

cuts wax as for embosser; (iii)

(electric lamp) marks maker's name,

voltage, and capacity on bulb of

lamp, using a stamp and acid.

etching shop girl; places article,

coated by waxer (130) (q.v.), in a

machine; turns handle causing needle

to move in path set by mould and to

trace pattern in wax; stops machine

and removes article after tracing.

froster; a sand blaster (q.v.) or a sand

blast labourer who gives frosted

appearance to glass by exposing it to

sand-blast, or who completes frosting

process by placing glass in an acid

fume cupboard; often works alter-

nately at sand blast and fume cup-

board.

glass lustre hand (chandeliers), see

drop cutter.

intaglio cutter, intaglio worker, as

for engraver, except that intaglio

cutter uses stone instead of copper

disc; he works on tablets and large

articles instead of small glassware;

machine is always power-driven; cuts

glass more deeply.

marker-out; prepares glass for en-

graving or for intaglio cutter (q.v.)

by marking out divisions on glass,

within which design is to be executed,

with mixture of whiting and gum

or red lead; works free-hand but with

help of divided rings to get even

spacing; glass must be given

object to centre of frosted part of

design by rubbing with moistened

cock and emery; assists engraver or

intaglio cutter by marking outline of

design.

obscure; a sand blaster (q.v.) who

frosts glass to make it opaque.

sand blaster; places a stencil over

hole in screen with one hand, while

he holds glass article against stencil

with other hand; by foot treadle,

tarnish or sand blast is given

"frosted" appearance to surface not

covered by stencil, decorating it,

printing maker's name, etc.; or,

frosts whole surface of article.

stamper, see etcher (electric lamp).

—GLASS BEVELERS.

beveler, often beveler, see beveller.

beveller, glass beveller; bevels edge of

mirror or plate glass by applying it

to horizontally rotating iron wheel,

which is kept supplied with sand and

water; sets wheel to correct angle

against gauge; switches on power

glass worker (plate glass); general term for operative engaged in any process in connection with production of plate glass; *cf.* *fouder* (129), *moulder* (125) (q.v.).

glazer; glazes (inside of new pot, or crucible by taking molten glass from another pot and plastering inside therewith all round, to close pores of clay).

glazier battery; bats, *sic*, shears, spectacle lens to shape for edgew (q.v.).

grinder, glass grinder; (i) grinds glass on mechanically-driven wheels, which are kept automatically supplied with sand or emery and water; moves glass to and fro to form pattern; (ii) grinds ends of tubing after cutting; (iii) is a disc man (q.v.); (iv) (watch glasses) removes glass from bender (q.v.); soaks sponge in oil and so secures glass in contact with carbundum wheel; grinds and bevels glass on wheel.

grinder, lens, optical lens; (i) *skip work*, puts emery paste on inside of cup-shaped mould to correct curvature placed on spindle starts-up spindle by pulley lever, holds lens blank against revolving mould until desired curvature is obtained, reverses lens blank and repeats operation (ii) *high quality work*, a rougher or smoother (optical lens) (q.v.).

grinder, lens (spectacle lens); puts lens received from rougher (q.v.) in a cap or holder and brings in contact with a revolving mould, deeper than those used by rougher; keeps cap in contact with mould by slipping a rod in position in top of cap; removes lens when ground to correct curvature; feeds mould with emery paste.

grinder, marble, as for grinder, stopper.

grinder, prism, see flat worker (optical glass).

grinder, stopper; a grinder (q.v.) who grinds stoppers and glass balls on a special lathe.

hand finisher (lens); receives lens from smoother, or, if edged, from edger (q.v.); fits into ring of desired curvature on which operated spindle and, using fine abrasives, works surfaces of lens up and down against revolving mould; frequently applies Newton test, i.e., holds upper surface of lens against surface of another lens of desired curvature and notes colour rays thrown-up; when lens is optically correct, inserts felt in mould and polishes, using rouge.

hot packer, see lehrman.

Inspector, see sorter.

linn dresser, see lehrman.

lamp lustre glider, as for enameller.

linnman, see burner; cf. linn dresser.

layer-out; receives painted designs; coats a sheet of glass with wax, picks-out suitable pieces of glass from a box, and presses into position in wax to finishing design for skinned glass painter (q.v.).

lehrman, lehr man, lehr linn man, lehr minder; *enameller, hot packer, linn dresser, piler*; packs articles in lehr or annealing oven, exercising care in placing different sized articles so that none crack through excessive heat; regulates firing to control heat, usually himself shovelling fuel on fire; directs assistants (139) (q.v.) if any; in hand made glass trade is a *glassworker* (q.v.).

small glass works places parts of hot glassware in hot end of lehr and collects as they emerge at cold end, rejects faulty glass.

lens finisher, see polisher (lens).

lens maker; *as for glass worker, optical*.

lens maker (micro-objective hand work); makes objective lenses for high power microscopes, working at small side back; sometimes makes right through from piece of plate glass; otherwise first receives glass from rougher (q.v.); either case, does

work of smoother (lens), polisher (optical lens); is sometimes an *achromatic hand* (q.v.).

lens maker (photographic); general term for all workers making photographic lenses, *e.g.*, rougher, grinder, polisher, band - finisher, edger, enameller, *assembler* (q.v.), except flat worker.

lens worker; general term for a worker engaged in any of the skilled or semi-skilled operations in lens manufacture, including enameller, finisher, grinder, polisher; sometimes specifically designated, *e.g.*, *micro-objective lens worker*, *achromatic lens worker*.

looker, glass looker; (i) *see sorter*; (ii) examines plate glass after polishing.

matcher; (i) sorts out plate glass in thickness and size suitable for laying on grinding tables; (ii) sorts stock glass into grades according to size, colour, and quality.

mixer, hatch mixer; weighs out and mixes, in wooden trough with shovel, under direction of manager or foreman, specified proportions of materials which go to make metal, *cf.* *mixer* (139).

monocist, mosaic worker; builds-up mosaic in enamelled glass from coloured design, exactly matching colour gradations; chips glass to shape with hammer and chisels and glues two downwards on leaves page, support it for mounting; sometimes also works in stone; *cf.* *monocist (stone)* (571).

mounter, lustre mounter; after (*chandelier*), mounts lustres on chandeliers, etc., after they have been drilled, threading wire through holes therein, connecting wire into position if necessary, and, with tressers, bending wire to form rings, hooks, etc., often also drills as for perforator.

object glass edger, see edger (optical glass).

object glass finisher, as for polisher, lens.

object glass maker, as for lens maker (micro objective hand work).

optician, working; grinds, adjusts or otherwise prepares lenses in workrooms; sometimes spends part time in serving customers behind counter.

perforator (glass manufacture); grinds, glass drill; (i) *sheet or plate glass*, drills holes in glass with steel hand drill fitted with a ratchet; oils drill when necessary; (ii) *smaller articles*, drills with a bow drill or any other type of hand drill mounted on a bench stand, moves an attachment connected with drill up and down or backwards and forwards; or operates a sensitive drill press, switching on power, and regulating pressure of drill upon glass by pressing on an adjustment to drill.

place opener; softens mouth of glass article in furnace and opens out with wooden jacks or spring tools with charrred wood prongs; tests dimensions with calipers.

piler, see lehrman.

pitcher, see blocker-out.

polisher (flat glass); polishes flat glass articles, by holding them against revolving wheels or brushes, and moving them about as required; in hot work polishes on wood or cork wheels fed with pumice powder; glass with rotten stone, and finally with putty powder; in fine work on circular fibre brushes 6 to 7 inches in diameter, fed with mixture of putty powder and water.

polisher (optical lens); receives lenses from enameller holders and polishes as for smoother (lens) (q.v.), using rouge instead of emery paste, and using felt lined moulds.

polisher (plate glass); polishes plate glass by hand on polishing tables, using rouge, or pumice, and polishing cloths, pressing evenly on glass to obtain uniformity.

polisher, lens (spectacle lenses); places spectacle lens, from lens

grinder (spectacle lens) or from smoother (lens) (q.v.), in a cup or holder and fixes that in contact with mould; moves lens to engage cloth or felt covered mould with pulley and shifting so that lens is polished by rubbing against rough, applies rouge with brush or by hand to mould; changes moulds as necessary.

prescription assistant, prescription hand (optician's); does best class work in making spectacle lenses, in manufacturing optician's establishment, according to customer's prescriptions; has usually served apprenticeship and has been through various workshops, roughing, grinding, finishing, cementing, etc.

prism hand, prism maker, prism worker, see flat worker (optical glass).

ranger; a cutter (q.v.) who uses a "range" or gauge to determine thickness of glass, price of which depends on weight in proportion to area.

roller man; controls levers of power driven rollers used by presser (125) (q.v.) in making plate glass.

rougher, lens rougher; rough edger; (i) *for flat work* receives prism from edger (q.v.); holds against revolving disc, to which he applies abrasive, and moves prism about until its surfaces are worn to desired extent; tests surfaces and angles with straight edge, etc.; (ii) *for curved work*, lays slab where partially cut by edger, to finish into portions; marks lens outline thereon and shapes off superfluous glass; grinds such blanks to standard curvature, testing against gauge, and using series of moulds of gradually deeper curvatures, fitting moulds to spindles; wears abrasive on moulds string grinding.

rough plate cutter, see edger.

runner plater; fastens and adjusts iron plates on grinding or revolving grinding arms, in plate grinding.

setter, lens setter; receives lenses from enameller (lens) (q.v.) before balsam quite set and finds common optical centre as for edger (optical lens); watches reflected image of light from mirror and moves lens to one of component lenses until they are concentric; allows cement to harden.

showman, showman; takes hand made glass out of lehr (annealing kiln) as cool and, and sorts into sizes.

sider (mirror); examines glass for defects and selects more polished side marked, with marking, etc., for silverer (q.v.); and polishes out scratches and stains with cloths, etc., and rouge, or, revolving bob; sometimes done by cutter (q.v.).

silverer (mirror, looking glass); lays sheet of glass to be silvered, face downwards on table, sometimes heated, covered with felt, and puts on back of it a sheet of nitrate of silver, ammoniac, and salts, causes a deposit to be formed thereon; then pours off surplus solution, washes and paints it with special paint, to protect silver.

silverer's assistant; assists silverer (q.v.) generally.

slitter, slicer; optical glass cutter, cuts, or "slices," glass into slabs or slices for lens making, and cuts discs, etc., from glass prism, according to instructions from works foreman and flat worker respectively; measures and marks glass for slitting; holds glass against revolving steel disc or clamps it into a holder and slides into position for slitting; applies diamond paste or other abrasive with brush to disc during process, or, before slitting, makes notches in edge of disc with hand tools, inserts abrasive and closes notches; holds wet cloth over glass and disc to moisten disc, and to trap splinters; measures, marks, and parts off, cuts through slab used for lehrman, for rougher (q.v.).

smoother, *see* flattener and straightener.

smoother (lens); glass rollers, received from blacker-out (q.v.), each on smoothing machine spindles, inserts in machine smoothing moulds of right size and curvature, applies emery paste and moves lever causing moulds to rotate about lenses on holders; applies emery as necessary and stops process when he considers smoothing complete.

smoother and polisher (lens), a youth engaged in processes of smoothing and polishing, by hand, small cheap lenses; cf. smoother (lens) polisher (lens).

sorter; *cammer*, glass locker, inspector, locker; examines finished or partly finished articles in warehouse to detect defects, etc., and grades them for size, quality and class.

squares; a glass cutter (q.v.) who measures and cuts discs of crown glass into convenient sections or squares with glasser's diamond, reducing waste to minimum.

stained glass window worker; church window maker; general term for worker engaged in any capacity in production of stained glass windows, including draughtsmen (345), glass painter, stainer.

stainer; *struer*; traces outline of drawing, in stained glass window manufacture, with a brown pigment containing finely powdered glass, and covers surface of glass with a wash of this pigment.

staker-on, *see* blacker-out.

starter-off, *see* disc man.

sticker-up, *see* blacker-out.

stopperer, stopper filler, stopper grinder; does some or all of following operations: puts glass stopper in (lathe) cuts strip tin to shape and hammers it out into a thin band; sprinkles band with moistened emery powder and bends it round revolving stopper; continues grinding until, by trial, stopper almost fits neck of bottle; cuts and hammers tin to shape and hammers it on to a peg to form a plunger; using emery on plunger, grinds bottle neck until, by trial, stopper fits perfectly.

stopper maker, cf. stopper maker (143).

straightener and flattener, *see* flattener and straightener.

teemer; pours molten glass on to casting table.

traces, *see* stainer.

trimmer; trims or shears any excess of glass at ends of cast plate after rolling; prepares table for plate glass polishing by spreading bed of plaster of Paris to receive annealed plate.

watch glass maker; general term covering blender (watch glasses) and grinder (watch glasses) (q.v.).

139.—OTHER WORKERS.

assistant taker, *see* cave emptier. batch labourer, batch mixer's labourer; fetches and carries material for batch mixer (138) (q.v.) and assists generally about mixing crucibles.

bench boy, bencher, *see* disc boy.

block layer; repairs polishing pads or "blocks" and polishing tables, by removing old felt and recovering with new.

block mixer, block boy; (i) couples up air nozzle in blowing cylinders for sheet glass; (ii) with a brush, dabs rouge or emery to blocks or moulds in less grinding or polishing; fetches and carries, rouge, lenses, etc., for grinders, polishers, etc., and assists them generally; (iii) assists gabberer (139) (q.v.) in process of cylinder making; keeps clean, and blocks gabberer's block, or marker, takes glass for re-heating before further blowing.

blower-up; manipulates compressed air on machine.

boy (glass tube drawing), *see* fanner (glass tube drawing).

brusher-up; keeps floor around bottle tank free from glass.

carriage runner (glass manufacture); a labourer who pushes carriage or trolley loaded with glassware to and from lehns or kilns and who carries in pots for setting.

carrier; general term for any person engaged in carrying or tracking materials or finished goods, including carrier (cylinder), carrier-off, taker-on, taker-out, smoker man, splitter girl (q.v.), etc.

carrier, cylinder; splitter girl; a carrier (q.v.) who carries cylinders to and from cylinder splitter (134) (q.v.).

carrier-down, *see* post boy.

carrier-off; (i) *see* taker-out; (ii) carries bottles from sector (138) (q.v.) to tiers for stacking in warehouse.

cave emptier, cave man; assistant taker, under boy; assists founder or leaser (122) (q.v.) by removing clinkers and ashles from cave, a furnace under furnace; also acts as glass producer attendant (353) (q.v.). charcoal man; heats and wheels charcoal to furnaces for plate glass.

checker in plate tube drawing, checks work from maker (139) (q.v.), looks it for effice check for sorters (138) (q.v.), and removes it into warehouse.

clinder boy, *see* cave emptier.

cleaner, glass cleaner; (i) cleans glass from dirt and stains after it has been ground and polished; (ii) in flint glass trade is a warehouse hand (342) (q.v.) cleaning glass.

cullet picker, cullet worker; sorts out cullet, i.e., waste glass for re-melting, according to its suitability for various uses.

cutter-up; (i) cuts short lengths of rod or tube into still shorter lengths, with glasser's diamond, (ii) cuts long lengths of tube, but from drawing into lengths, by touching tube, at points indicated, with cold moistened iron tool, causing glass to crack.

clabber-up; dabs clay round furnace doors to make air-tight and keep in heat.

disc boy; bench boy, bencher; supplies sand for grinding wheels in manufacture of plate glass, and assists disc man (138) (q.v.) generally by keeping discs clean and ready to disc man's hand.

drawer boy, *see* post boy.

dribble boy, dribbler; removes with metal scraper on to casting table, the dribble or drops of molten glass left in cast (molding) pot after molten glass has been poured; puts back this dribble into pot to be re-melted.

enameller (chemical glassware); rubs enamel, or powder, into gradations on chemical glassware.

fanner, fanner (glass tube drawing); boy (glass tube drawing); fans glass during tube drawing with his cap, or with wooden fan under direction of blower (139) (q.v.), draws (138) (q.v.), to cool glass and reduce speed of attenuation; with other hand using callipers, etc., measures glass and informs blower or drawer when correct gauge reached; does other odd jobs, e.g., fetching water used in cooling glass, touching glass with cold tool to break glass into lengths.

feeder-up; is a learner who dabs pumice powder, rotten stone, or putty powder, on wheels and brushes used by plasher (flint glass) (136) (q.v.).

freeser-off; removes lenses from block or runner by exposing them to sea-cold water.

gunman, *see* layer.

general hand; (i) is a labourer who renders general unskilled help; (ii) in flint glass works is a glass house worker, usually one acting as extra footman (124) (q.v.).

glasshouse boy; taker-in; assists bulb maker (124) (q.v.) by gripping hand moulds during blowing; catches blowing iron when it is thrown on grid by bulb maker; kneads off adhering

glass from end of blowing iron into box for re-melting, etc.; collects bulbs from grids and carries them to job.

glass house labourer; does any unskilled work in glass house, such as wheeling pot lorry, assisting in pot setting, etc.; cf. glass house worker (138).

grinder-off; rubber-off; rubs sharp edge of machine made twist-off bottle on stone slab.

heaver-off, heaver-out; transferer; moves bottles from parison mould to turning machines or semi-automatic machine; transfers articles from mould in which they were pressed to mould in which they will be blown up.

hookman; in vertical drawing of cylinders attaches hook, from overhead block and pulley to lower cylinder to horizontal position; also does other general labouring work in department.

iron boy; cracks finished article off blowing iron and cleans iron of superfluous glass.

ladle boy; in rolled plate and draws glass making runs empty ladles back to water cooling tank.

layer; grinders, lays glass on grinding tables in preparation for grinder (138) (q.v.).

lehr drawer, lehr assistant; *panner-up*; takes out finished work from cold end of lehr, or annealing oven; returns empty pans to front of lehr, cf. drawer (138).

lens cleaner; removes traces of pitch, i.e., adhesive, from lenses, after freezing off, with naphtha or other solvent.

melder; fuses sharp ends of cut drawn tubes, from drawer (138) (q.v.), by placing tubes in clips and subjecting to Hansen flame.

mixer; mixes plaster in buckets for use by layers (q.v.); cf. mixer (136).

mould boy; assists blower (124) (q.v.) by opening, closing, and cooling moulds.

mucker; shunt team for labourer who cleans up slop and dirt in plate glass grinding sheds.

panner-up, *see* lehr drawer.

pan window (glass works); in small establishments a labourer stationed at old type of annealing kiln, winds, by hand, chain to draw pans of glassware through kiln; does fetching and carrying to and from kiln.

pipe warmer, pipe hanger; heats glass-pipes ready for use by gatherer (129) or blower (124) (q.v.), joins pipes, and hangs them up when returned from use; is usually a pouter or a pony sticker (q.v.).

pouter, punter; smooths off marks left on articles of glass ware after breaking off pouty, pouty or pontil, i.e., small stick of glass by which article is held from gathering.

by holding against revolving wheel, automatically fed with sand and water, and finishing on grinding and polishing stones; cf. pouter (124).

pouty sticker, pouty sticker; assists maker (124) (q.v.) by gathering small quantities of glass on solid rod, "pouty" or "pouty" for marking stem or foot of a glass, or for attaching to an article in process of making, to hold it when taken off blowpipe.

post boy, post holder, post man; carrier-down, drawer boy, punter puller (glass tubes); assists drawer (138) (q.v.) in glass tube drawing; places shaped end of post, i.e., large type of pouty rod, against glass foundation and keeps even strain as drawer walks backwards from him in drawing; rolls post when drawer rolls blowing iron, to preserve shape of drawn tube.

pot chipper; chips off from old pots portions of glass adhering thereto, for re-melting; is usually engaged on other work for part of his time.

pot filler (glass house); shovels batch, i.e., mixture of materials, or cullet, i.e., waste glass for re-melting, into pots or crucibles.

pumper puller (glass tubes), see post boy.

pusher; assists flattener (138) (q.v.) in plate glass manufacture by pushing glass cylinder into kiln, and by pushing flattening stone into and out of kiln.

rubber-off, see grinder-off.

runner, machine runner; oils, and keeps in adjustment, automatic continuous bottle making machines.

runner, carriage; a carrier who conveys cylinders of glass on metal carriage to filling kiln.

sand burner; fills receptacle, placed over a furnace, with sand, intended for glass making; heats to redness, to destroy any organic matter, stokes furnace.

sand filler; fills sand boxes used in connection with sand heating machine.

sludge pit man; a labourer who empties sand settling pits in grinding sheds.

splitter girl, see carrier, cylinder.

stocker-up, see take-out.

sucker man; guides glass as it is carried by overhead crane, to which articles are attached by means of suction cane.

taker-in, see glasshouse boy.

taker-off; takes finished article from mould of machine, and places it ready for taker-in (q.v.).

taker-out; carrier, stocker-up, wheeler-out; a carrier (q.v.) who takes finished articles from belt, i.e., annealing furnace, to warehouse.

transferer, see heaver-off.

washer, bottle washer; a warehouse hand who washes finished articles ready for packing.

washer, cullet; metal washer; shovels cullet, i.e., waste glass for re-melting into "metal," into a store; dips in water and shakes to remove dirt and other foreign matter; sometimes sorts into grades for sale.

washer, sand; shovels sand intended for glass making into washing machine, where any salts, chalk and other impurities are washed away; controls supply of water.

waxer; keeps a vat filled with wax; stokes furnace thereunder to melt wax; places glassware in wire cage, immerses, and removes when coated.

wetter-off; (i) in glass house assists blower; disconnects blown article from tube by dipping a piece of iron, "mallet," etc., in cold water and bringing into contact with hot blown article to crack it; (ii) in silvering room washes sheets of glass with distilled water after polishing and beveling, prior to silvering for mirrors, etc.

wheeler, cullet or molli; removes scrap or waste glass, sometimes called molli, from working places or to furnaces.

wheeler, frit; wheels batch, or mixture of materials, to melting tank, for sheet glass making.

wheeler, sand; (i) wheels sand, after it has been washed and burned, to mixing room; is usually occupied in other work for part of his time; (ii) supplies sand for grinding wheels in manufacture of plate glass.

wheeler-out, see taker-out.

winder-up; in factories where annealing is done on a stage level above glass house, raises or winds finished bottles from glass house floor to stage level, for taker-in (q.v.) to carry to annealing kiln or arch.

wiper; in floating room cleans glass finally before it is examined.

wiper-out; a warehouse girl who washes off dried putty powder from glass after polishing process.

ORDER VI.—WORKERS IN CHEMICAL PROCESSES: MAKERS OF PAINTS, OILS, ETC.

Sub-Order I.—Workers in Chemical Processes.

141.—FOREMEN AND OVER-LOOKERS.

match maker; a foreman who supervises workers in a match making factory or part thereof; watches output of machines; maintains correct temperature in certain rooms.

142.—DISTILLERS AND STILL-MEN.

acetate of lime maker; a distiller q.v. who distils crude acetate acid run in from wood distilling plant and controls by means of valves, passage of purer product of distillation into gas of milk of lime; allows acetate of lime to settle, opens valve to run off liquid and lets in steam to jacket of pan in order to dry the product, which is removed by labourer.

acetic acid maker; wood acid maker; a distiller q.v. who heats a mixture of crude calcium acetate (cf. acetate of lime maker) with sulphuric acid of known strength, by means of steam coils to make pure acetic acid; shovels or empties sacks of lime acetate into tank; opens valves and starts and stops mechanical stirrer; removes residue from tank with shovel.

acetone maker; a distiller q.v. who distils acetone from acid calcium acetate by heating it in perforated trucks in a retort; shovels acetate into trucks; pushes trucks into arches in retort; closes doors and opens dampers, acetone vapour is evolved and condensed in condenser; on completion of distillation, re-opens door, withdraws bangers with long iron hook and empties them.

acetone recovery man, acetone recovery; solvent recovery man, in cordage manufacture, is in charge of plant for absorbing acetone vapour from fumes given off from cordite drying stores; controls switch of fan driving fumes through towers down which sodium bisulphate solution (forming, with vapour, an acetone emulsion), flows into collecting tank ready for distilling; regulates flow of solution in tanks; in artificial silk spinning, attends stills for recovery of acetone, process similar to that in cordite manufacture.

acetone rectifying man, acetone rectifier, acetone purifier; solvent rectifying man; a distiller q.v. who distils solution of acetone in sodium bisulphate to recover acetone, alcohol recovery worker; a distiller q.v. who in a variety of manufacturing processes, in which alcohol is used, takes residue or mother, mixes it with water or other solvent and collects alcohol in condenser of steam-jacketed still.

anthracene maker (distiller); a distiller q.v. who distils crude anthracene, deposited from coal tar when cool with lime and caustic potash; further purifies distillate by sublimation.

benzene collas maker; a distiller q.v. who distils a mixture of benzene and nitric and sulphuric acids to make nitrobenzene, used as perfume and as base for aniline dye, benzol extractor, benzol maker; a distiller q.v. who extracts commercially pure benzene from coal tar distillate by fractional distillation, i.e. collects in separate vessel all distillate from still between certain narrow temperature limits.

chloroform maker; a distiller q.v. engaged in preparation of chloroform from acetone and chloride of lime (bleach).

coker, wood; a distiller q.v. who loads wood blocks, by hand, into a retort, closes and controls heating of retort by dampers so that all volatile matter is driven off, and wood coke, or char, is left in retort; opens valve to allow vapours to pass through condenser in which wood tar is deposited, controls by valve passage of non-condensable gas to burners beneath retort where it burns to heat retort, concentrating acid man (explosive); de-nitrator (gun cotton), de-nitrating acid man; pumps or opens valve to allow to run from tank, weak waste acid, after nitration of cotton or glycerine, into highest of a series of pans set in furnace fire, top pan when filled overflows into pan below, and so on, thus as acid falls lower in series it becomes gradually hotter, causing water and nitric acid to boil off, finally leaving sulphuric acid to run out from lowest pan into storage tank.

creosote maker; opens valve to run coal tar heavy oils into tank; allows oils to settle; opens valves to run off creosote and re-distills, see distiller; runs out residue oils from tank.

crude benzol maker, crude benzol man; a distiller q.v. who distils off benzol in steam from creosote, solvent in which benzol is dissolved from coal gas or coke oven gases in benzol scrubbers; opens and shuts valves controlling flow of steam and creosote oil to still, and process of distillation.

de-nitrator (gun cotton), de-nitrating acid man; a distiller q.v. who concentrates acid man left after nitrating gun cotton, cf. nitrator (gun cotton) (143), by running waste acid into still and opening valve admitting steam to steam jacket or tending furnace to heat acid direct, thus heating and driving off nitric acid; controls by a valve, passage of water through outer jacket of condenser; runs off condensed nitric acid into lead or porcelain-lined or glass vessels; (ii) see concentrating acid man (explosive).

distiller; stillman, in charge of process of distillation; charges still by shovelling in solids, running liquids from previously prepared or mixed, controls temperature of still by opening or shutting valves regulating passage of (1) furnace gases to still, (2) secondary air to produce gas, and also, of producer gas itself, (3) oil to acid burner, (4) steam to steam coils, steam jacket by which still may be heated, (5) cold water to cooling coils by which temperature of action is kept low, and thus regulates flow of acetone product of distillation from still to condenser; uses also regulates flow of water through condenser, by means of a valve, so that temperature of gases leaving condenser is constant; instructs labourers as to nature of vessel to be placed at outlet of condenser to collect liquid coming therefrom, e.g., glass or lead-lined vessels for certain acids, and so on; in steam distillation, controls valves regulating passage of steam to still through contents of which it is allowed to bubble, thus carrying off volatile product in fractional distillations, controls temperature of distillation as above, and by means of valve diverts products of distillation to various containers, after leaving condenser, so that products distilled between certain limits of composition are kept separate from each other; in continuous process, by means of valves regulates rate of flow of cooling liquid, controls fall of temperature of gases to be condensed, collecting products of condensation in a tank along condenser according to temperature at which they condense; instructs labourers as to discharging of solid residues from still, and cleaning of still before re-use; conditions under which distillation takes place, temperature, method of application of heat, nature of condensing apparatus, material of which still and rest of plant is made, vary according to products made; sometimes specifically

designated by raw material distilled or by product of distillation, e.g. acetic acid distiller, benzol distiller, benzoline distiller, camwood distiller, essential oil distiller, fatty acid distiller, naphthalene distiller, oil distiller, pitch distiller, resin or rosin distiller, shale oil distiller, tar distiller, wood distiller.

diacetyl glycerine maker; glycerine worker (explosive); a glycerine stillman *q.v.* in explosives manufacture who re-distills a very pure glycerine for use in making nitro-glycerine and dynamite.

ether maker; a distiller *q.v.* who distils carefully prepared samples of exact proportions of alcohol and sulphuric acid in steam jacketed lead-lined stills; the ether is collected in leaden vessels.

evaporator man (insurer); runs solution of animal grease in benzene into closed evaporating pan and distils off benzene from grease to recover it for further use; *cf.* distiller.

glycerine process man; see glycerine stillman.

glycerine stillman; glycerine refinery stillman; glycerine process man; a distiller *q.v.* who distils glycerine in vacuo with superheated steam; *cf.* glycerine maker (153).

glycerine worker (explosives); see dynamite glycerine maker.

hectaman; see shale burner.

motor spirit plant attendant; see for rectifier.

naphthalene still fireman; shovels coal or coke into, and takes out naphthalene from furnace beneath still for purifying naphthalene by sublimation; sometimes also controls flow of gases by valves.

petroleum oil maker; see for distiller.

process man (glycerine refining); see for glycerine stillman.

recoverer, solvent (cellulose); a distiller *q.v.* who recovers solvent in recovery of cellulose; the principal constituents of which are ether, carbon and gummaton.

rectifier; redistiller, refiner; a distiller *q.v.* who rectifies purities, a chemical product by distillation, or a series of distillations, or by fractional distillation, *i.e.*, separating various constituents according to the temperatures at which they distil; sometimes specifically designated according to product of rectification, e.g., benzol rectifier, petrol rectifier, petroleum rectifier.

redistiller, see rectifier.

refined benzol maker; see for distiller.

refiner; see rectifier; sometimes specifically designated according to chemical refined, e.g., benzol refiner, glycerine refiner, oil refiner, petrol refiner, petroleum refiner.

refiner, carbolic acid; runs caustic soda solution into tank containing lower boiling liquid obtained from the fractional distillation of coal tar; mixes liquids by mechanical mixer or by hand stirring, and allows sodium phenate formed to separate out as lower layer of liquid, runs off latter solvent, and then gradually, sulphuric acid still phenol separates out as a light oil, which he distils fractionally; *cf.* distiller, collecting purest phenol between 180° to 190° (1); cools phenol, running it to crystalline and dries off crystals; *cf.* carbolic acid process worker (143).

revert attendant, revert man (shale), *see shale burner*

shale burner; heaterman, revert atten-

dant, revert man (shale); controls process of distillation of oil shale in vertical retorts; charges shale into retorts, by shovelling or tipping, and operates valves controlling flow of product gas and air to heat retort, and flow of steam into which run ammonia from nitrogen in the shale. also controls outflow of vaporized shale oil and ammonia gases from retorts to condensers.

solvent recovery man; see acetone

recovery man.

solvent rectifying man; see acetone

rectifying man.

still attendant (celluloid), see for still man (xylonite).

still attendant (shale burning); controls, by means of a valve, flow of ammonia liquor from condensers, of shale burner, through still against powerful current of steam which he turns on as required; regulates by another valve flow of liberated ammonia gas to saturators where it is treated by sulphate house man (143) *q.v.*

still fire attendant, see for distiller.

stillman; see distiller; sometimes specifically designated according to product distilled, e.g., alcohol stillman, ammonia stillman, benzol stillman, carbolic stillman, ethylamine stillman, oil stillman, tar stillman.

stillman, bleach; in charge of stills in which hydrochloric acid and steam are passed into heated manganese dioxide mud, controls valves regulating inflow of gas and steam and outflow of chlorine gas made; sometimes labours on to cleaning out of stills at intervals, and recharging with manganese mud by shovelling.

stillman (xylonite); a distiller *q.v.* who distils alcohol that has been used in manufacture of celluloid, refines for further use; runs into tank impure alcohol and adds powdered chemicals by hand; opens and shuts valves, admitting steam to jacket and alcohol vapour to condensing vat.

tar rectifier, tar refiner, see for dis-

still fire attendant; a distiller *q.v.* who also regulates temperature of tar still by feeding furnaces heating still and adjusting dampers; removes ashes from furnace with iron rake and shovels them into barrow.

terpentine distiller, see for distiller.

wood acid maker; see acetic acid

maker.

143.—PROCESS MEN AND FURNACEMEN.

absorber man; shovels lime into tank and opens valve admitting water, controls, by hand, lever of mechanical stirrer and continues adding water and stirring till milk of lime is of required consistency, opens valve regulating supply of chlorine gas under pressure, after test by chemist, runs off contents of tank to next process in manufacture of potassium chlorate.

acetate of sodium maker (artificial silk); crystal house man, crystalliser (artificial silk); crystallising man, acrylamide; attends at vat to neutralization, crystallization and drying of sodium acetate; opens valve to run acetic acid into lixiviating vat; shovels caustic soda to vat till acid is neutralized, starts mechanical stirrer by hand lever, and admits steam to jacket of vat by means of valve to cause solution to crystallize; runs off mother liquor for reuse and shovels crystals out of vat into barrow.

acetylizer; see cellulose acetate maker. **acid maker; general term for a process** worker *q.v.* employed on and making plant.

acid oil attendant (margarine); treats free fatty acids and other by-products of margarine refinery, by heating with steam and by adding sulphuric acid, to produce acid oils (raw material for soap making).

acid worker; in acid manufacture,

general term for persons engaged in manufacture of acids, includes acetic acid maker (132), carbolic acid refiner (142), acid burner, chamber man, column man, concentrating acid

man, de-americator, hydrochloric acid maker, kerosene, acid mixer, nitric acid maker, column man, oxalic acid maker, acid purifier, sulphuric acid man, towerman, in explosive

manufacture, general term for persons making, blending, or denaturing

acid and sulphuric acids in explosive

factory, includes concentrating acid

man (142), de-nitrator (143), hand

mixer, nitrator, nitro-glycerine maker, picric acid worker; in celluloid manufacture; *cf.* acid worker (148).

aluminous colour maker; a process worker *q.v.* engaged in making aluminous dyes from dyelake, antimony, alizarine maker; artificial sodder maker, a process worker *q.v.* making alizarine, a base from which alizarine dyes are made.

alkali meter; shovels soda ash (sodium carbonate) into tank, and stirs it up with water; shovels in lime and stirs and heats mixture by opening valve admitting steam at bottom of tank, when action is complete allows liquor to settle and runs or pumps off caustic soda solution formed to boilerman (518) *q.v.*

aluminous cake maker; a process worker *q.v.* who makes steam cake by mixing, by mechanical mixer,

measured quantities of *see* process, calcine, clay or other aluminous material, and sulphuric acid in lead-lined vessels and allowing product to solidify; weighs out powdered clay and tips it into vessel; then runs in known volume of acid, and operates valve which sets stirring apparatus in motion.

ammonium chloride maker; see muriate of ammonia maker.

ammonium sulphate plantman; see sulphate house man.

aniline dye maker; a process worker *q.v.* making dyes from dyelake aniline; runs aniline or a derivative into vessel, and runs in other chemicals, stirs mixture by hand or mechanically, controls temperature by means of valve letting in steam, hot or cold water to coil in vessel; allows products to separate and runs off product required, may also distil off product if necessary; *cf.* distiller (142).

anthracene maker, anthracene man, anthracene plant man; a process worker *q.v.* in charge of plant in which that part of coal tar distillate, called anthracene oil, is

allowed to stand and cool, till impure anthracene separates out, runs off liquid part of distillate; dries

anthracene by shovelling into a hydro-extractor, and passes it to

powerful hydraulic press in which more of solvent oil is squeezed out;

feeds cakes of pressed anthracene to grinding mill; adds steam, or

powder, formed in closed vessels with solvent naphtha to extract more

impurities; runs off naphtha and

impurities, leaving anthracene ready

for next operation; *cf.* anthracene

man (140).

artificial sodder maker; see alizarine

maker.

artificial silk worker; general term covering workers in manufacture of

artificial silk, *cf.* acetate of sodium

maker, *see* acrylamide; *cf.* artificial

silk worker (328).

ash finisher; see furnaceman, allan.

ash recovery man; see soda recovery

man.

bench man; controls, by means of

valves, passage of hydrogen and chloro-

form gas to heat chamber in which

the hydrogen burns at series of jets

to form hydrochloric acid gas; controls

flow of water down tower against up-

rising stream of hydrochloric acid gas,

minutes, then leaves them to separate and draws off acid layer, washes residual liquor in similar way with dilute caustic soda, and runs off washings, leaving benzol paper and ready for further distillation.

best settler man, see *chlorate of potash maker*.

bicarbonate of soda maker; *carbonate of soda maker*; a process worker *g.v.* in charge of part or whole of plant in which bicarbonate of soda is made by ammonia-soda process. May be an ammonia stillman (142) *g.v.* or control apparatus in which he saturates strong brine with ammonia gas by passing ammonia from still through a valve to bottom of vessel containing brine cooled by cold water coils; also controls flow of lime kiln gases, containing carbon dioxide, by means of valve to carbonating tower into which he pumps brine solution saturated with ammonia; runs out from bottom of tower, sludge containing bicarbonate of soda crystals, for recrystallisation.

black ash maker; *alkali furnaceman*, *ball furnaceman*, *ball potman*, *black ash furnaceman*, *furnaceman*; converts a mixture of salt cake (acid sodium sulphate), broken furnaces and small coal into black ash by heating it in a furnace, ashore or slip mixture on to bed of furnace, or into hopper of reversing furnace, which he subsequently sets revolving by moving a lever; controls, by moving dampers, passage of furnace gas, heating mixture, and in case of fixed furnace, rakes over mixture at intervals to ensure completion of action; when mixture is at fusing point, works black ash as formed up into beds which he rakes and shovels from furnace into iron barrows to solidify.

black ash man; *ashista black ash maker* *g.v.* in furnacing salt cake mixture and preparation of black ash.

bleacher (explosive); general term covering any worker engaged in bleaching cotton for use in explosives; may be placing cotton in tanks, running in bleaching solution and agitating by mechanical stirrer; drying cotton in hydro-extractors and drying stores; making up dried and bleached cotton into bales, by hand, for despatch to explosives factory.

bleaching powder maker; *chloride of lime maker; wheels barrows of slaked and ground lime to elevated ladders, chambers, spreads lime raked into furrows over floor of chamber; controls, by means of a valve, flow of chlorine gas into and temperature of chamber by diluting chlorine with air should temperature tend to rise too high, rakes lime over by hand to expose fresh surface to assist absorption of chlorine, and blows out excess of chlorine at end of operation ready for bleach pecker (149) *g.v.**

blender, *cellulose acetate blender* (artificial silk); mixes and blends different grades of cellulose acetate, in manufacture of artificial silk, by running them into mixing tank and stirring by hand or mechanically.

blender, oil (mercural oil refining); *acetate mixing plant* which he runs different kinds of oil, blends them by stirring and beats them in pans to complete blending process.

blow stone maker; a process worker *g.v.* who runs sulphuric acid into lead-lined vessel into which he has previously tipped or shovelled refined copper ore, stir contents by hand, and may also beat by means of a steam coil controlled by a valve to assist solution of copper ore by acid; runs out copper sulphate solution formed into vats, in which copper sulphate crystallises out, *i.e.*, blue stone, *cf.* crystalliser.

boiler (gun cotton), see *washer* (gun cotton).

boiler, *kier* (gun cotton); *kier man*; attends *kier* or *vats* in which he boils raw cotton in caustic solution, preparatory to its being made into gun cotton.

brewer's colouring maker; a process worker *g.v.* who makes caramel to add to beer, aerated waters, spirits, or vinegar, by heating sugar to specified temperature in a metal vessel until action and colour change to dark brown are completed; allows to cool, dissolves caramel in water, and concentrates solution in steam-purged pan, regulating flow of steam by means of valve, runs out caramel into kegs or drums for export.

burner, acid, see *burner*, pyrites.

burner, animal charcoal; *revivifies animal charcoal*, after use in sugar refining, by washing it in water to remove adhering sugar solution, and then burning it in a pipe kiln with external gas or coke furnace heat; feeds washed char to top of pipe by tipping or bucket conveyor; controls opening of pipe so that as char gradually falls it becomes roasted, and opens door to bottom of pipe to allow roasted char to fall into sheet iron cooling pipes provided with valves, which he opens at intervals to allow cooled roasted char to fall out ready for re-use.

burner (bones, etc.), see *calciner* (bones, etc.).

burner, copper stone, see *burner*, pyrites.

burner, mangle, see *burner*, pyrites.

burner, oxide, *shovels oxide* (polysulphide or iron recovered from gas works) into mechanical screen whence it is mechanically conveyed to top of furnace, where sulphur and sulphides are burnt out of iron oxide; watches proper working of conveyor and furnace works and automatic discharge; adjusts furnace dampers.

burner, pyrites; *acids burner*, *copper stone burner*, *mangle burner*, *sulphuric acid burner man*, *sulphuric acid furnaceman*, *sulphuric acid kiln man*, *vitriol burner*; a kiln man, *g.v.* who stokes coke fires in furnace which roast iron pyrites; controls pyrites into kiln; carefully regulates supply of air to kiln by keeping kiln door partially closed, so as to produce sulphur dioxide, used mainly in manufacture of sulphuric acid, when charge of pyrites contains no more sulphur, takes out spent ore and recharges kiln by hand shovelling, *cf.* sulphur burner.

burner, sulphur; *shovels broken pieces of sulphur into hopper of sulphur burner*, which is slowly revolving; adjusts screw feed by which sulphur is fed to end of burner; adjusts dampers to control air supply and degree of flames and acid fumes to Glover tower where pure sulphuric acid is condensed and concentrated.

burner, vitriol, see *burner*, pyrites.

burner man, acid burner man, see *kiln man*.

burner man, sulphuric acid, see *burner*, pyrites.

burner (bones, etc.); *burner* (bones, etc.); *shovels bones into retorts and feeds furnace fires which heat retorts and so drive off volatile compounds* (bone oil, etc.), leaving bone ash; at end of calcination takes out ash (or animal charcoal) and re-charges retorts.

camphor maker; is in charge of chemical plant in which camphor is synthesised from pinene or other chemical compound, runs liquid pinene into vessel, opens valve admitting dry-chlorine gas to vessel, runs in acid fumes, controls stirring apparatus and valve of steam heating coil to form camphor.

carbide of calcium maker; feeds an electric furnace, by hand, with a mixture of carbon and freshly burned lime; taps off carbide at intervals and casts into hard grey blocks in moulds.

carboic acid man; *assists carboic acid stillman* (142) *g.v.* in separation or distillation of carboic acid (phenol); controls steam valves, washes out still, runs in acids, etc., under direction of stillhead.

carboic acid process worker, *carboic plant man*; a process man *g.v.* in charge of plant for making phenol (carboic acid) from liquor remaining after extraction of naphthalene from coal tar, *carboic edis*; runs in caustic soda solution, mixes it with liquor; runs off layer of sodium phenate solution, neutralises with sulphuric acid or carbon dioxide gas, and runs off phenol which forms a separate layer.

carbonate of ammonia maker; a process man *g.v.* who shovels a powdered mixture of exact proportions of soda ash and ammonium sulphate into a pan, which he beats by means of a furnace; fumes evolved pass over into cooling chamber and condense on sides and roof as ammonium carbonate; scrapes deposit of chamber and shovels into casks or bags.

carbonate of potash maker, see *potash extracter*.

carbonate of soda maker, see *bicarbonate of soda maker*.

carbonating man, *carbonator man*; (i) opens valve to run liquor to be carbonated into tanks and controls valve which passes lime kiln or waste furnace gases containing carbon dioxide through them; runs out liquids when carbonation is completed; (ii) adds lead scrubbing material in charge of carbonator, a tank with mechanical stirring apparatus, which produces white lead by Britton's process; adjusts valve to control flow of carbon dioxide, usually spent furnace gases, through lead acids suspended in water, *acidic acid*; starts and stops mechanical stirrer; runs off liquor when settled and shovels residue of white lead from tank into barrows; (iii) *ammonia soda process*, carbonates concentrated solution of ammonia in brine in carbonating tower by allowing solution to flow down towards upward current of lime kiln gases, passage of which he controls by a valve; withdraws sludge of sodium bicarbonate crystals from bottom of tower, by opening valve and allowing it to flow out.

carbon dioxide maker; adjusts valve to regulate trickle of weak potassium carbonate solution from tank at top down coils filled cylinders in tower, up which furnace or lime kiln gases, containing carbon dioxide, are passing; takes sample of solution at foot of cylinder for test as to content of carbon dioxide and adjusts valves accordingly; from cylinder pumps solution of carbon dioxide, which runs off from bottom of cylinders, into boilers where it is heated and the gas thereby set free, passes gas to gas holder or compressing pump.

caustic finisher; fills a series of iron pots with caustic liquor by means of power pump, and ladles out finished caustic after evaporation; sometimes also feeds and attends to fires which heat pots.

caustic fireman; feeds and attends fires for evaporating caustic and assists caustic finisher *g.v.*

causticiser, see *caustic soda maker*.

causticiser man, *soda causticiser man* (paper manufacture); *caustic maker*, *pot man* (paper); stirs up, by hand or mechanically, product from incinerator, *cf.* incinerator man, with water, and shovels in powdered lime to convert caustic soda into *caustic soda*; boils and stirs liquor by opening valve admitting steam to bottom of vessel, and, when action is complete, allows sludge to settle, runs off caustic liquor and agitates sludge with fresh water to extract last traces of caustic.

caustic maker (linear caustic); a process worker *g.v.* who makes linear caustic (nitrate of silver) by dissolving silver in nitric acid, evaporating to dryness in hot water or steam jacketed pan, controlling hot water or steam by means of valve and then leading to fusion pots, for surgical

purpose, fused product with potassium nitrate and caustic in this cylindrical tank.

caustic potash maker, *as for caustic soda maker.*

caustic soda maker, *causticizer*; a process worker *g.v.* who introduces powdered slaked lime, in sodium carbonate solution, (usually purified tank liquor is used, *i.e.*, liquor obtained by dissolving black ash in water, *cf.* black ash maker); stirs mixture by mechanical means, or by opening valve and bubbling live steam through it; allows precipitate to settle, and runs off caustic liquor.

caustic soda man; *caustic caustic soda maker g.v.* by opening valves, starting-up stirrer, etc., under his direction.

caustic weak liquor man; operates a pump which drives weak caustic liquor, made by caustic soda maker *g.v.* into pans heated by waste heat from black ash furnace, or from other sources, and allows tank liquor carbonate or other salts deposited on concentration; continues concentration till specific gravity of liquor is about 1.4, then runs liquid out for further concentration in caustic pots; *cf.* caustic finisher.

cellulose acetate maker, *cellulose maker*; *acetylator*; puts measured quantities of several chemicals into vessels and mixes them mechanically.

chamber man, *acid chamber man*, *sulphuric acid chamber man*; controls flow of steam by means of valve and allows current of sulphur dioxide nitric fumes and air to pass into first of a series of leaden chambers in manufacture of sulphuric acid; sends samples of chamber acid (or acid drips formed by reaction of those gases in chambers) to laboratory periodically for analysis, watches progress of action through glassed apparatus and operates valves which drive gases from last chamber to Gay Lussac tower in which residual nitrogen oxides are extracted; supervises firing of pyrites burners *g.v.*

charcoal maker, *animal*, *see* retort hand, *animal charcoal.*

charge hand (*gun action*); in charge of processes and plant for making of gun cotton; gives instructions as to charging, nitrating, washing or heating, etc., to various workers, including tier boiler, band mixer, nitrator, washer, burner (148).

chlorate of potash maker; *best settler man*; a process worker *g.v.* who passes chlorine into cylinders of milk of lime, by opening valve, and moves lever which controls stirring apparatus inside cylinders; continues to pass chlorine till analysis shows that all milk of lime has been converted into calcium chloride or chlorate; runs liquor into settling tanks, and stirs in powdered potassium chloride; allows precipitate to settle and runs off solution into concentrating pans; controls by valve admission of steam to steam jacket and takes out crystals of potassium chlorate formed.

chlorate of potash man; a process man *g.v.* engaged on plant in which chlorate of potash is made; assists chlorate of potash maker *g.v.* by shovelling lime into cylinder, running in water and stirring mixture, usually to make milk of lime; or does any other part of process to help chlorate of potash maker *g.v.* generally.

chlorate of soda maker, *or for chlorate of potash maker.*

chloride of calcium man; a process worker *g.v.* who concentrates calcium chloride, usually by evaporator, by heating in steam-jacketed pans, controlling steam by means of a valve and, after cooling, runs liquor into drums.

chloride of lime maker, *see* bleaching powder maker.

chlorine liquefaction man; drives powerful gas pump, by opening valve or switch, and traps pure chlorine gas, made electrolytically,

through concentrated sulphuric acid into a cooled condensing coil, whence it flows in liquid form into strong acid vessel; controls valve regulating flow of water in outer jacket of condenser; draws off liquid chlorine, then proceeds into cylinders as required.

chroma maker; makes chrome yellow pigments by precipitating lead chromate from a solution of potassium bichromate by running into it a solution of lead nitrate or acetate and stirring mixture to ensure thorough mixing; allows precipitate to settle, runs off liquor; runs in water and stirs up with precipitate to ensure thorough washing; runs out wash water and shovels out chroma on to porcelain plate to dry in hot air stove.

coal tar dye maker; a process worker *g.v.* engaged in converting coal tar products into dyes.

cobalt finisher, *cobalt refiner*; (i) operates a muffle furnace in which black oxide of cobalt from filter presses is heated and afterwards ground; (ii) in charge of muffle furnace in which ground oxide is reheated in process of further refinement.

cobalt gassing man; a process worker *g.v.* who runs hydrochloric acid into tanks into which he shovels broken iron pyrites (ore); sulphuretted hydrogen thus generated passes through tanks of solution containing cobalt and other compound thus precipitating iron and copper as sulphides; allows precipitate to settle, runs off solution which contains cobalt and nickel compounds, and stirs precipitate with water to extract last traces of cobalt and nickel salts.

colouring oven man, *see* furnaceman, red lead.

colour maker; (*paints*) a process worker *g.v.* who makes colours for painting, etc., by mixing under suitable conditions fixed quantities of various chemicals; adds water to quantities of chemicals, adds water to dissolve them, mix and stir up solutions so made, filter off precipitate formed, place filter and precipitate on shelf of drying oven to dry and scrape off precipitate formed; (*dye*) a process worker *g.v.* who, under the guidance of chemist is in charge of process of making dyes, by treating various chemical liquors, solutions or powders, taking great care that instructions as to quantities, methods of preparation, temperatures of action, duration of action, etc., are rigidly observed.

column man, *acid column man*, *sulphuric acid column man*; *acid tower man*, *Glover tower man*; sulphuric acid tower man; a process worker *g.v.* who controls valve on pump or compressed air blower, supply and distribution of circulating acid in towers at inlet and outlet of series of sulphuric acid chambers.

concentrating acid man, *acid concentrator*, *concentrating man* (*acid*), *concentrator*; acid *g.v.* who concentrates; opens valve admitting steam to jacket of concentrating pan in which he has previously run acid to be concentrated; in this way drives off excess of water from weak acids; controls temperature of pans to avoid overheating and consequent decomposition; sometimes specifically designated, *e.g.*, nitric acid concentrator, sulphuric acid concentrator.

condenser attendant (*nitric acid refining*); *fun attendant* (*see* man); controls valve which starts up or stops gas exhausters (pumps) which draw vapours of acid and ammonia from oil still through condensers and thence to scrubbing towers, where gas is washed before it is returned to retorts for heating purposes; attends pump which pumps water through outer jacket of condenser to condense vapours coming from oil still, runs off at intervals, and disposes in condenser tanks into storage tanks.

condenser man; superintends working of condenser attached to a distillation plant; controls circulation and temperature of water by means of cooling medium, in condensing tank by running in water as required, and maintains clear passage through condenser by regulating speed of passage of condensing water by control valve, so that temperature does not fall low enough to cause distillation products to solidify; runs off condensed liquid into tanks or carboys, and sees that condenser plant is cleaned out after suitable intervals.

condenser man (*hydrochloric acid*); *sulphate of soda towerman*; a hydrochloric acid maker *g.v.* in an alkali works; controls, by means of valve, flow of water down towers in which hydrochloric acid gas is absorbed.

coppera maker; *sulphate of iron maker*; in tin-plate manufacture, attends to vats in which he boils spent acid from pickling process with scrap iron; runs liquor off into vats and allows it to cool and deposit crystals of copper on bottom; stirs off cooled liquor, and detaches crystals from strips and sides of vat.

copper extractor; *extractor* (*copper, see* process); a process worker *g.v.* in charge of plant, comprising lifting and precipitating vats, in which he stirs up by mechanical means roasted copper ore and so dissolves them in water, and deposits copper from solution by shovelling in iron turnings; washes deposited copper free from impurities in chemicals to filling and discharging of vats with copper compounds and liquors.

copper sulphate maker; a process worker *g.v.* in charge of plant in which copper sulphate is made as a by-product in other chemical processes, or direct from copper ore or copper turnings and crystallised to render it pure.

crystalline plant man, *as for carbolic acid process worker.*

crystal settler man, *crystalliser, crystallising man*; (i) is engaged on a plant in which chemical solutions are concentrated by heating, and allowed to cool in large tanks in which are suspended metallic strips on which crystals form; (ii) is engaged in filling boilers, running in solutions, putting metal strips into tanks, bending valves admitting steam to steam jacket where tanks are heated in this way, removing, drying, sorting, or sieving crystals; (iii) is engaged in running off weak solutions; sometimes specifically designated, *e.g.*, coppera crystalliser, prussiate crystalliser; (b) (*artificial silk*) *see* acetate of sodium maker.

cudbear maker (*paints and colours*); boils up, in vats, certain vegetable substances yielding coloured liquors; concentrates and filters off liquor which is called cudbear; *obscurest*, *deepest* plant man; *deepest process man*; decomposing man; a process man *g.v.* who makes chlorine gas by acidifying hydrochloric acid gas which he passes with air over red hot fire-bricks, impregnated with cuprous chloride, or other suitable agent; regulates volume of gas and air by means of valves; fills chamber in which action takes place with impregnated firebricks by shovelling, and burns producer gas through it so to keep it heated, opens vents for supply of secondary air to producer gas burners.

de-arsenicator, *sulphuric acid*; *acid de-arsenicator*, *acid de-arsenicating sulphuric acid man*; *acid de-arsenicating sulphuric acid man*; *sulphide of arsenic maker*; opens valve which either admits a stream of sulphuretted hydrogen through a tower, down which sulphuric acid is allowed to run, or operates pump which flows through the sulphuric acid, after adding alkali or hydrochloric acid, to remove arsenic; allows arsenic sulphide to settle and runs off de-arsenicated acid from tanks. *decomposing man*, *see* decan plant man.

deteriorator man; runs charge of mono-nitro-toluene into tank containing waste acids from tri-nitro-toluene plant, and fitted with mechanical stirrer; stirs up liquids to ensure solution of any tri-nitro-toluene present in waste acids in mono-nitro-toluene; allows liquids to separate and runs off each separately, waste acids to de-nitration plant, cf. *deteriorator* (gun-cotton) (142), and solution to nitration plant, cf. *nitrator* (gun-cotton) digester man, see *pan man* (alum salt).

dissolver man; (i) see *tower man*; (ii) shovels soda ash into tank, runs in water, and stirs by hand or mechanically to assist formation of solution for manufacture of soda crystals or caustic soda; (iii) dissolves any solid or liquid chemical in a liquid in process of making a further chemical product, e.g., for crystallization, precipitation or filtration; usually works at dissolving or mixing tanks; opens and closes valves, tips or shovels in or admits from hopper solid chemicals, controls mechanical stirrers.

dresser; see *furnaceman*, red lead.

dryer, cellulose acetate; stove heated, puts cellulose acetate into steam-heated drying stove; empties stove after drying.

dynamite maker; makes dynamite by pouring a measured quantity of nitro-glycerine into a pan into which has been placed a weighed quantity of dry powdered kieselguhr; stirs up by hand till all nitro-glycerine has been absorbed by kieselguhr; runs mixture through a metal sieve to obtain it in granulated form.

e.c. worker, electrolytic chlorine worker; general term covering a process man *q.v.* engaged in making chlorine by electrolytic decomposition of salt solution, and assistants, e.g., coil room man (148), runs in salt solution in continuous stream, and runs out sodium hydrate solution formed by opening valves; switches on current and takes samples periodically for test by chemist; opens valve allowing chlorine formed to pass to bleaching powder or to liquifying plant.

epson salts maker; a process worker *q.v.* in charge of plant in which epsom salts crystalline magnesium sulphate, is made by action of sulphuric acid on mineral magnesia, and product crystallized; shovels powdered mineral into tank, runs in dilute sulphuric acid, and stirs mechanically to ensure thorough mixing; runs liquor into crystallizing tanks, and turns on valve admitting steam to steam jacket thereof, runs out weak liquor and detaches crystals from sides of tank or from strips of metal hanging in it.

evaporator man; (i) in charge of plant in which solutions of chemicals are evaporated by furnace gases or steam jacket or coil; runs liquor into pans, opens trigger admitting furnace gases to flow beneath them, or opens valve admitting steam to steam jacket; runs out solution when sufficiently strong; (ii) runs spent lye from epso salt bleaching tank into evaporating pans and controls heat, as above, which concentrates liquor to syrup consistency; passes concentrated lye to incinerator man *q.v.*

extractor (copper, wet process), see *cupper extractor*.

fan attendant, fan man, see *condenser attendant*.

ferro-prussiate maker; prussiate maker, prussiate of potash maker; a process worker *q.v.* who shovels leather scraps, animal hooves, cuttings from skins, etc., potassium carbonate powder and iron turnings into large pan set on hearth of reverberatory furnace, stirs up mixture during heating up to fusion point, and runs out metal produced; boils it in pans with water to extract prussiate of

potash, runs off liquor, and evaporates in steam-jacketed pan to form crystals; rakes out crystals.

filterer (paraffin wax); *pression* (paraffin wax), *wax refiner*; a steam-jacketed pan by hand with crude or partially refined paraffin wax, paraffin scale; shovels in powdered charcoal and fuller's earth into wax by opening valve admitting steam to steam jacket, and stirs mixture by operating mechanical stirrer; allows bulk of charcoal and fuller's earth to settle and runs off wax to filter press; operates lever applying pressure to press forcing out molten wax and retaining last traces of charcoal, etc., runs off residual oil, called heavy oil or soft paraffin which separates out from wax in separate layer, in refrigerating plant or to hydraulic press.

flowers of sulphur man, see *refiner sulphur*.

furnaceman; (i) see *black ash maker*; (ii) see *kiln man*.

furnaceman, acid, see *kiln man*.

furnaceman, alkali; *ash finisher*, *ash furnaceman*; (i) see *black ash maker*; (ii) shovels or tips soda crystals, shovels or tips crystallized liquid from black ash filtration tanks, into pan and feeds furnace which heats pan and drives off water of crystallization from soda crystals; rakes over soda crystals and when anhydrous, shovels white ash into sacks ready for despatch.

furnaceman, alum; shovels or tips powdered mixture of bauxite and calcined soda ash on to hearth of reverberatory furnace; feeds area of furnace and regulates them by adjusting dampers to give just bright red heat and avoid fusing mixture; rakes out mass with long handled iron rake into iron hoppers, pushes buggies to grinding mill ready for lixiviation of sodium aluminate formed.

furnaceman, ash, see *furnaceman, alkali*.

furnaceman, ball; *black ash furnaceman*, see *black ash maker*.

furnaceman, chrome ore; shovels into furnace chrome ore to convert them into bi-chromates; feeds and attends fire heating furnace; withdraws metal ores with long handled rake.

furnaceman, electric; in charge of furnace which he heats by passing a powerful electric current through material to be treated.

furnaceman (orange lead), see *orange lead maker*.

furnaceman (points and colours); feeds with fuel by shovel or adjusts gas burners of furnace for heatings naturally occurring pigments (native earths) and other materials to produce such points as ochres, ambers, siennas, etc.; adjusts dampers to maintain correct temperature.

furnaceman, red lead; *colouring oven man*, *drover*, *lead oxide maker*, *red lead maker*, *red lead storeman*; charges litharge, i.e. lead which has undergone a preliminary process of fusion in a furnace, on to hearth of reverberatory furnace or dropping oven, and rakes it over thus continually exposing fresh surfaces and stimulating oxidation, until it becomes bright red in colour, i.e., red lead; removes product from furnace by shovel and allows it to cool.

furnaceman, salt cake; sulphate of soda furnaceman; *salt cake maker*, *salt cake man*, *salt cake water maker*; when barrow loads of salt from salt shed to weighing machine and then to salt cake pot; shovels or tips known weight of salt into large shallow pan; opens valve to run in correct quantity of sulphuric acid, and mixes up both thoroughly with long handled iron paddle; tends and feeds furnace which heats pan and contents, allowing hydrochloric acid gas fumed to pass from pan into plant in which it is condensed and collected when gas is larger escapes, pushes charge from pan on to floor of soda-

cent muffle furnace with long handled iron paddle and raises temperature to complete action by suitably sticking furnace; keeps mass stirred and raked over floor whilst heated; rakes out salt cake when action is finished into iron tubs or barrows provided with lids, for removal to black ash furnaces or salt cake sheds.

furnaceman, sulphuric acid, see *burner, glycer*.

glycerine maker; *glycerine process man*; a process worker *q.v.* engaged in recovery of glycerine from spent lye, a by-product of soap manufacture, or from sweet water, a by-product of candle making, or in its refining, e.g. as crude glycerine maker, glycerine stillman (142), or white glycerine maker *q.v.*

glycerine maker, crude; *crude glycerine recovery worker*, *glycerine recoverer*; a process man *q.v.* who attends to plant in which glycerine is prepared in an impure state, from soap lye, by allowing lye to stand, skimming off any residual soap which floats on surface; then runs lye into lead-lined vessel, runs in hydrochloric acid and aluminium sulphate solution; opens valve to admit compressed air which stirs up mixed liquids thus precipitating fatty acids; then off precipitate by pumping liquor to filter press, opens valve of filter press as required, runs filtrate from press into tank, runs in alkaline solution and concentrates by heating in steam-jacketed pan or in special evaporator.

glycerine recoverer, crude glycerine; *factory worker*, see *glycerine maker, crude*.

glycerine worker, see *nitro glycerine maker*.

green scale attendant; runs off residual oil from refrigerators in which mineral oils are cooled to freeze out wax; shovels crude wax into barrows and wheels to filterer (paraffin wax) *q.v.*

grille man, grille plant attendant, see *alum man*.

grinder, cellulose acetate grinder; runs dried cellulose acetate into mill for grinding and attends to grinding operation.

grinder (explosives); feeds and operates a mill in which raw materials or constituents materials are ground, to ensure that an explosive thoroughly uniform in composition is made; cf. *incorporator* (148).

grinder, kieselguhr; *quar mill attendant*; feeds, by hand, hopper of grinding mill with kieselguhr, absorbent infusorial earth, which with nitro-glycerine is mixed in manufacture of dynamite; starts and stops mill by lever; controls chute by which ground kieselguhr falls into barrows or containers; replaces full containers by empty ones.

guhr kiln attendant; spreads ground kieselguhr on floor of kiln by hand, and attends to fire below which heats kieselguhr to dry powder ready for use in manufacture of dynamite; rakes out dried kieselguhr into tubs of barrows for removal.

guhr mill attendant, see *grinder, kieselguhr*.

hydrochloric acid maker, hydrochloric acid man; *maric acid man*; controls by a valve flow of water down towers filled with coke up which hydrochloric gas, made as by-product in salt cake manufacture, *cf. salt cake furnaceman*, is led; takes samples of liquid acid falling to tanks at bottom of towers for chemist; adjusts flow of water accordingly; runs off or pumps acid away to storage tanks.

hydrophosphate of soda man, see *pot man* (alkali).

hydrophosphate of soda man; a process man *q.v.* who shovels scrap zinc into vessel containing sodium bisulphite solution; moves lever raising mechanical stirrer to assist action of zinc, runs in milk of

lime to precipitate zinc, allows precipitate to settle and runs off solution, shovels in salt and runs off precipitate sodium hypochlorite, runs off solution, adds water to dissolve precipitate, concentrates solution by admitting steam to jacket of vessel, and takes out crystals as formed; dissolves up crystals again in water and runs in excess of caustic soda solution than on stirring, precipitates sodium hydrochloride as a fine powder; runs off liquor and stir powder up with alcohol to remove all traces of solution; runs off alcohol and allows to dry, ready for packing, shovelling often done by chemical labourer (140) g.v.

hypochlorite of soda maker; controls valve of pumping apparatus which blows chlorine vapour under pressure into tanks containing caustic soda solution; takes samples of chlorite produced for tests by chemist; shuts off chlorine acid; opens valve to run liquid into storage tanks ready for filling of casks.

incinerator man, soda incinerator man (paper manufacture); pan oven (paper), *cooker oven, soda roaster oven;* receives concentrated spent lye from storage tanks or from evaporating plant, *cf.* evaporator man, runs it into shallow pans heated by means of a furnace which he tends; heats it to dryness and continues heating until all organic impurities have been burnt off, leaving sodium carbonate as marketable residue; takes out residue into tanks ready for next process of fixation.

iron crystal man; opens valve to run sulphuric acid after de-aerification, *cf.* de-aerification, into tanks into which he shovels or tips scrap iron, usually tried to save oxidation at expense of acid; adds water and hand with iron stirrer, promotes solution of iron; allows liquor to settle and runs off clear liquor when sufficiently strong into covered evaporating tanks; opens valve to admit steam to steam jacket and so concentrates solution, causing it to crystallize; runs off mother liquor and detaches crystals from sides of tank with iron scraper.

Kesslerman; concentrates sulphuric acid from Glover tower of plant; regulates valve to blow acid from weak acid tanks at foot of tower into concentration tanks heated by producer gas; opens valves admitting producer gas and air to combustion chamber; continues heating until acid is sufficiently concentrated; regulates, according to amount of acid fumes passing upwards, flow of acid down tower into weak acid collecting tanks; when chemist's test reveals standard strength acid, runs out concentrated acid to storage tanks, or to tanks for filling casks for despatch; regulates valve to pump rolls of weak acid into concentration tanks.

kester man; a concentrator *q.v.* who attends to kester plant for evaporating liquors, mainly used for evaporating weak caustic soda ready for incinerator man *q.v.*

kier man, see boiler, kier (gun cotton).
kiln man, acid kiln man; acid burner-man, acid furnaceman, burner man, furnaceman (soda ash manufacture); attends to kilns in which ore and other raw materials are heated to a high temperature, *i.e.*, burnt, calcined, or roasted; changes, by shovelling, kilns or furnace with ore, tends and feeds fire, and by opening or closing dampers, regulates supply of air to heated area, and to furnace below.

kiln man, claus; shovels a certain depth of ferric oxide upon claus kiln grate and pumps a mixture of sulphuretted hydrogen and air into cylindrical space below grate; beats aside, by means of small fire below, in order to start kiln; mixed gases pass up through heated ferric oxide and form sulphur and steam by combustion, keeping oxide hot; sulphur

vapour passes into series of cold chambers where it is deposited as molten sulphur, or, as flowers of sulphur, runs off liquid sulphur at intervals, or scrapes flowers of sulphur from roof, sides and floor of chamber, and shovels it into sacks, bags or trucks.

kiln man, sulphuric acid, see burner,

cooker oven, soda roaster oven.

kiln man (fertiliser), see kiln stoker

(manure).
kiln man (vitreous enamel); shovels powder composed of constituents of vitreous enamel into special crucible, and places three by means of long-handled tongs into furnace which he tends; continues heating till contents of crucible are fused together, withdraws mass from furnace, pours out fused mass into tank of water to cool and breaks it up ready for grinding to powder.

kiln stoker (manure); lifts man (fertiliser); shovels degassed bones, or refuse animal charcoal from sugar refineries, as a fire for kiln; feeds acid attenda fire below which issues charcoal, etc., and so converts it into bone ash; rakes out bone ash into barrows, to cool ready for grinding.

lead man (sulphuric acid works); adds scrap lead in iron pot and melts lead sulphate residues with coke in small furnace; also makes lead sulphide by adding powdered sulphur into molten lead, and running lead sulphide into strikers for use in de-aerating sulphuric acid.

lead oxide maker; (i) *see* litharge maker; (ii) *see* furnaceman, red lead, **lethal gas maker;** a process worker *q.v.* in charge of plant in which poisonous gases are made, *e.g.* chlorine, cyanogen, phosphene, etc. **lims house man (soda works);** wheels barrels of lime into lime house, tips lime into slaking bin and sprays with water, by hand, shovels slaked lime into belt conveyor, feeding grinding and screening machine, which in turn supplies bleaching powder maker *q.v.* with ground, sifted slaked lime; cleans, by hand, at intervals, sieves of machine.

liquor maker, liquor man; cf. runner; a process worker *q.v.* who is responsible for preparation, strength, and running off, of liquors ready for crystallising. *See* also **chemicist;** prepares liquors by stirring chemicals shovelled into tanks with water by hand or mechanically; varies strength of liquors by adding water or other solvent, or, by heating in pans by steam jacket, to which he admits steam by opening valve.

litharge maker; lead oxide maker, shovels or pours by hand pure metallic lead on to hearth of reverberatory furnace, where it is heated to dull redness, constantly rakes it over with long-handled metal rake to promote oxidation, until yellow or yellowish red substance in a fused state, known as litharge, is formed; rakes out litharge when oxidation is complete; wheels it in barrows to grinding and sifting machine; shovels it into machine hopper; at intervals, cleans, by hand, machine sieves; *cf.* water.

litharge worker; an explosive worker (145) g.v. who shovels, with wooden shovel, picric acid crystals into steam-jacketed tank; turns on steam to melt crystals, liquid litharge flows through grid in tank bottom to storage tank for shell filling; *cf.* picric acid worker.

methylated spirit maker; is engaged in production of partly or fully denatured alcohol; runs pure alcohol into tank and adds mineral naphtha or wood naphtha and colouring dye to it, carefully measuring volume added in order to conform with customs regulations; stirs mixed liquids by mechanical stirrer, and runs it out into storage tank.

mixer, acid; accumulator manufacture, runs pure sulphuric acid into mixing tank, then runs in slowly, fixed

volume of distilled water, stirring acid continuously by mechanical or hand stirrer during, and after addition of water, to ensure uniformity of mixed acid for electrical accumulators; in chemical works, attends valve or tanks into which he runs, pumps or blews, by compressed air, acids to be mixed; controls stirring apparatus to ensure thorough mixing, controls valves governing flow of brine in cooling coils when temperature changes, caused by mixing of acids, are not desirable.

mixer, Atlas; an explosive worker (138) g.v. who pumps ammonium nitrate into an Atlas mixing machine to be dried and ground to powder; starts and stops machine and empties contents into containers by hand levers.

mixer, caustic, see causticizer man,

mixer, hand (explosives); mixes with the hands in leaden trough, gun cotton and nitroguaraine for making cordite or rockets, by hand, materials for making other explosives.

mixer, gun (explosives); mixes ingredients of gunpowder by grinding weighed materials together in a pan mill.

monardist maker; a process worker *q.v.* engaged in preparing pure chemical monards, *e.g.*, bicarbonate of potash or soda, iron salts, stannous chloride, or aluminium compounds.

morphia maker; in charge of plant in which morphia (or morphine) is made from poppy-bloss by being extracted, filtered off with milk of lime, filtering off and concentrating filtrate, boiling it with ammonium chloride and allowing to stand till morphia separates out and can be filtered off. **marlate of ammonia maker, marlate of ammonia man; ammonium chloride maker;** opening a valve, runs ammonia solution, or ammonia gas under pressure, into a tank, and similarly, runs in hydrochloric acid till ammonia is neutralized (revealed by chemist's test), admits steam to steam jacket to concentrate solution; shovels crystallised ammonium chloride from sides of a concentrating tank and runs mother liquor back from tank for re-use.

marinate acid man, see hydrochloric acid maker.

naphthalene maker, see naphthalene worker.

naphthalene man, naphthalene plant man; a process man *q.v.* engaged on any part of naphthalene plant of coal tar distillation works; extracts naphthalene by sifting part of coal tar distillate to collect in tank; runs liquor from impure naphthalene crystals deposited in tank, dries crystals in hydro extractor, and presses out residual oils in powerful hydraulic press; may also purify naphthalene by heating it in shallow iron pan, by means of a steam coil, admitting steam by a valve, naphthalene passes off as a vapour and is condensed in large brick chamber; scrapes naphthalene from sides of chamber and shovels it into tanks.

naphthalene worker; naphthalene maker; general term covering all persons employed in extracting and purifying naphthalene obtained from coal tar by distillation, and includes naphthalene man, naphthalene pressman (134) g.v., naphthalene refiner, naphthalene whizzerman (140) g.v.

naphtha refiner; *sic* **sophia refiner;** rectifies products of petroleum naphtha distillation by running them into vessel, running in sulphuric acid and stirring by hand or mechanically; allows liquor to settle and separates, runs off acid and impurities; runs in water and stirs again to remove traces of acid, allows to stand and separate again, and then runs off water with acid washings, repeats once again with fresh water, and runs naphtha away to store and sells as neutralizer; (i) *scrubbing powder* or chlorine, runs liquor, product of hydrochloric acid and manganese dioxide after chlorine has been

consist of one or more of the following operations; weighs out or measures quantities of chemicals to be used, runs liquors into or out of vats, towers, tanks, etc., beginning or end of action; opens valve admitting steam or hot water to heating coils or cooled brine to cooling coils, changes, by shovelling, tipping or by means of hopper, raw materials on to hearth of furnace, and tends fires of furnace to heat such charges; controls electrical apparatus for producing chemical by electrolytic action in bath of liquid, and extracting samples of liquid for analysis at intervals to ascertain progress of reaction; shovels metal scrap into tank of liquor for purpose of depositing on other metal; stirs up mixtures of liquids, or of liquid with solid usually in form of powder, to promote or stimulate action; stirs by hand, taking care to use stirrer which will not affect liquors being stirred, or operates mechanical stirrer; evaporates liquors in shallow pans, heating them with furnace gases, or by means of hot water or steam coils; extracts crystals formed on concentration by raking them out or by withdrawing strips of lead on which crystals have been deposited which have been suspended in liquors whilst cooling after evaporation; purifies liquors by running into them other liquors, stirring up by hand or mechanically, allowing two liquids to settle, and draining off pure liquid separately or allows impurity or precipitate to settle out and draws off purer liquor; extracts chemicals from mixture of chemicals in solution, by adding a further solution to precipitate chemical required, and then pouring whole on to small wooden frame to filter off precipitate, or pumps it to filter press, and extracts precipitate in cakes from filter press bags; to purify gases, passes them up towers, down which is allowed to run a liquid which dissolves out impurities, or opens valve which allows them to pass through chambers spread with layer of chemical which extracts impurities, or may purify gases by causing them to bubble through liquids which extract impurities; sometimes carefully watches temperature of reaction, and regulates it by increasing or decreasing circulation of steam, hot water, or cooled brine through coil, by means of valves, or by turning on supply of gas to burners; is usually assisted by chemical workers and labourers (149) *q.v.* who may do most of work described above under process worker's supervision and instruction; process worker can usually do his work in absence of chemist, and would refer to latter only in case of need.

granulate maker, granulate of potash maker, see ferro-prussiate maker.

purifier; a process worker *q.v.* who extracts impurities from chemicals by washing, chemical action, filtering, freezing, crystallising, distilling, etc.; sometimes specifically designated, *e.g.* acid purifier, sulphuric acid purifier.

purifier, mercury; attends to plant for purifying mercury used in electrolytic chlorine production; regulates a valve, flow of steam into sodium mercury amalgam in a tank forming caustic soda, and liberating mercury, which he runs off from lighter caustic soda back to electrolytic cell.

purifier, guanine, see refiner, guanine.
pyridine maker; a process worker *q.v.* who prepares pyridine from tar, by opening a valve, runs product of distillation of bones into tank and, similarly, adds measured quantity of sulphuric acid; then opens valve which passes stream of ammonia gas into liquors; concentrates tar, and pyridine forms a separate layer on surface of liquor; runs off liquor into another tank and collects layer of pyridine in drums placed beneath tank draining pipe

pyridine plant man (tar plant); is in charge of tar plant in which he prepares pyridine by one of following methods; (a) opening a valve, runs acid tar from naphtha washer into tank and adds water and starts a mechanical stirrer, causing tar to come to surface; skims off tar, with hand scoop, and runs in alkali solution till acid is neutralised, allowing pyridine to form separate layer; skims this from liquor and places into another tank for distillation; runs off remaining liquid; (b) runs clarified acid liquor into tank and opens valve passing ammonia through it; skims off separated pyridine as above.

rectified sulphuric acid man; rectified sulphuric acid pan man; a concentrating acid man *q.v.* who concentrates rectified sulphuric acid.

red lead maker, see furnaceman, red lead.

refiner, acid; (i) *see de-arsenicating sulphuric acid man;* (ii) *see concentrator;* (iii) a purifier *q.v.* in charge of plant in which acids are purified and concentrated; sometimes specifically designated, *e.g.* sulphuric acid refiner.

refiner, kerosene; paraffin oil maker, paraffin oil refiner; purifies that fraction of petroleum which distils over between 150° and 200° C., by running it into tank, adding sulphuric acid and stirring up liquids by starting mechanical agitator; allows sulphuric acid to separate and then runs it off; repeats process with caustic soda solution, and finally with water; separates oil in each case by allowing it to form layer on top of other liquid and running off either upper or lower layer.

refiner, naphtha, see naphtha rectifier.

refiner, naphthalene; a process worker *q.v.* in charge of plant for refining naphthalene received from naphthalene pressman (148) *q.v.*; pieces, drops, etc., cakes of naphthalene in steam-jacketted tank, opens valve admitting steam to jacket thus melting naphthalene, moves lever to start up mechanical stirrer and opening valve, runs in small quantity of strong sulphuric acid, continues stirring to bring acid into close contact with naphthalene; allows liquor to settle and runs off acid (lower) layer, repeats process with water and then with a caustic solution; then runs off naphthalene to vessel to be refined; may also purify it further either by subliming or by distilling the insoluble residuum in steam.

refiner, paraffin oil, see refiner, kerosene.

refiner, guanine; guanine purifier; in charge of plant in which guanine sulphate, obtained from cinchona bark, is purified by recrystallisation; runs solution of guanine sulphate into steam-jacketted pans, opens valve admitting steam, and takes out crystals as formed; re-dissolves crystals in water and repeats this operation until sufficiently pure guanine is found.

refiner, saltpetre; saltpetre man, saltpetre refinery man; shovels crude saltpetre into steam-jacketted pan, runs in water and stirs it mechanically, at same time opens valve admitting steam to jacket or coil, thus dissolving saltpetre; if any solid impurities are present, runs liquor through muslin frame filter into another steam-heated tank; continues beating liquor until crystals begin to form, takes out crystals from sides and allows solution to cool depositing more crystals in doing so; shovels crystals into revolving pan of hydro-extractor to dry them.

refiner, sulphur; flowers of sulphur man; shovels crude sulphur or brimstone on to hearth of closed firebrick chamber and tends and feeds fire beneath this hearth, so that sulphur melts and finally vaporises; vapours pass into a cool brick chamber where they are deposited on sides, roof, and

floor in a pure state; removes deposited sulphur at intervals, by scraping from walls and roof of chamber and shovelling off from floor into sacks, redner, wax, see filterer (paraffin wax); *cf.* wax refiner (138).
refinery man, smelter; in charge of sulphur refining plant; charges retort with brimstone and feeds furnace; runs off refined sulphur in viscous state and takes out black or residual sulphur from retort; may also break up agglomerated refined and black sulphur; *cf.* brimstone grinder (149).

refinery man, saltpetre, see refiner, saltpetre.

retort hand, animal charcoal; animal charcoal maker; makes animal charcoal by shovelling cleaned (degassed) bones into retort, closing door thereof, and heating retort by means of producer gas or by direct furnace firing until decomposition is complete; takes out charred bones; vapours pass over into condenser and condense forming bone oil.

revolver fireman, revolver firer, revolver man; a black ash maker *q.v.* who shovels mixed and broken salt cake, *cf.* salt cake furnaceman, limestone, and coal dust into large revolving furnace; closes door of cylinder, and attends to fire, hot gases from which pass axially through centre of revolving cylinder; moves lever causing cylinder to revolve thus ensuring even heating of materials; continues process until flames of carbon monoxide are seen to pass from surface into chimney, when heating is stopped; then opens charging door of cylinder and takes out fused mass (black ash) into iron trucks placed ready to receive it.

roaster man, acid roaster man, see incinerator man (paper manufacture).

roaster man (chemicals), see kiln man.

roaster man, salt cake, see furnaceman, salt cake.

salt cake maker, salt cake man; (i) see pot man (alkali); (ii) see furnaceman, salt cake.

salt man (coke ovens), see sulphate house man.

saltpetre man, see saltpetre refiner.

S./Am. maker; construction for sulphate of ammonia maker, see sulphate house man.

saturator man, see sulphate house man.

schwab man, see sulphate house man.

Scott man; an evaporator man *q.v.* who attends a Scott evaporator; opening a valve, runs or pumps into apparatus liquor to be evaporated; opens valve admitting steam which heats up liquor; runs concentrated liquor out of apparatus.

silver mud man; a process worker *q.v.* who recovers precious metals from "mud" and "slimes" in making sulphate of copper by dissolving process, or produced from bottom of baths in electrolytic refining of copper, using beating or smelting process; *cf.* ore furnaceman (171).

small maker; places powdered mixture of cobalt oxide, silica (pure sand) and potassium carbonate into a wheeled fireclay crucible, and wheels crucible to furnace; attends to heating of furnace by shovelling coal therein or by regulating gas valve; when powder is fused, withdraws crucible, and using iron rod, turns fused mass, into water to break it up ready for grinding again to powder which is a blue pigment known as small.

soda ash maker; shovels impure crystals of sodium carbonate on to hearth of furnace and feeds and attends fire which heats furnace and drives off all water of crystallisation from crystals leaving anhydrous sodium carbonate or soda ash; when action is complete, takes out soda ash by means of trolley to rool; may purify ash by grinding up soda ash with small coal or sawdust and beating mass in furnace again; latter method obsolescent.

soda ash man; general term for any man engaged in manufacture of alkali by ammonia-soda process; includes ammonia stillman (143), bicarbonate of soda maker, soda ash maker g.v.

soda crystal maker, see soda maker.
soda crystals man; see soda crystal maker g.v.

soda maker; soda crystal maker, washing crystal maker, washing soda maker; shovels soda ash, of soda ash maker, into tank, runs in water (or mother liquor) from previous operation and stirs mechanically to assist solution of chemical; allows solution to stand and settle, runs off clear solution into shallow pans heated by waste gases from black ash furnaces or by steam jacket or coil, and allows soda to crystallize out on cooling; takes out crystals as formed.

soda man; assists bi-carbonate of soda maker g.v. in shovelling soda ash, raking-out crystals, etc.
soda recovery man; alkali recovery man; general term for any man employed on a plant for recovering caustic soda from spent lye that has been used for bleaching paper in paper manufacture, including incinerator man, causticizer man, and evaporator man g.v.

spinner, silk spinner (artificial silk); runs (liquor) silk dope, composed mainly of cellulose acetate, into spinning machine and maintains flow of silk dope through jets.

steeper (gun cotton), see washer (gun cotton).

stove hand, see dryer.

stove man, red lead, see furnaceman, red lead.

sugar of lead maker; a process worker g.v. who makes sugar of lead (lead acetate) by speeding, with shovels, litharge (lead oxide) on shelves in copper containers, and opening valve which admits acetic acid vapour to vessels; continues until chemist's test reveals completion of process; shovels out lead acetate formed into tank, adds water and stirs mechanically; evaporates solution in steam-jacketed vessel by opening steam valve, and takes out, from a condensing tank, crystals formed from vapour.

sulphate house man; ammonium sulphate plant man, a. one, maker, sell man (see oven), sulfurizer man, shovels men, sulphate maker, sulphate man, sulphate of ammonia maker, sulphate of ammonia man, sulphate plant attendant; engaged on plant in which ammonia formed in gas and coal tar manufacture is converted into ammonium sulphate; may perform any of operations involved, e.g. runs or pumps ammoniacal liquor into settling tanks to allow residual coal tar to settle out; runs out pure liquor through heated coil, and thence into still down which it passes slowly against steam which heats it and drives off part of ammonia; opens valves controlling entry of steam to bottom of still, and of milk of lime solution at middle of still, thus mixing them with ammoniacal liquor and driving off rest of ammonia and other gases (impurities); sprays run cycle on grids of purifiers and recovers it when spent; ammonium sulphate formed in absorption tank falls to bottom as crystals which are taken out by hand scoop or blown out by steam or air pressure, shovelled into hydro-extractor, dried, and scooped into bags.

sulphate maker; (i) see sulphate house man; (ii) is in charge of evaporating and crystallizing plant in which sulphate of ammonia liquor is treated; opens valves to run sulphate of ammonia and other liquids respectively into a tank; opens steam valve to pass steam through liquor or through tank jacket; stirs, with hand rod, allows liquor to crystallize, runs off mother liquor for re-use and shovels-out crystals; dries crystals in centrifugal hydro-extractors.

sulphate man, see sulphate house man.
sulphate of ammonia maker, sulphate of ammonia man, see sulphate house man.

sulphate of iron maker, see copperas maker.

sulphate plant attendant, see sulphate house man.

sulphide of arsenic maker, see de-arsenicator.

sulphonator man (picric acid); opening valves, runs into sulphonating plant, i.e. big lead-lined tanks fitted with mechanical stirrers, fixed quantities of strong sulphuric acid and phenol (carbolic acid), stirring continuously to ensure thorough mixing and production of phenol sulphonic acid; opens valve to pump this away to nitroting plant, where picric acid is made, see picric acid worker.

sulphuric acid man; vitriol man; a process worker g.v. engaged on plant producing sulphuric acid by either chamber or contact process; may be doing work of pyrites burners, or sulphur burners g.v., workers who shovel nitre and run sulphuric acid into nitre pots to form masses of nitro-glycerine, boiler attendants who raise steam for making the acid or for driving machinery, chamber men g.v., or acid pump men who pump acid formed into tanks at tops of Gay Lussac or Glover towers, or away to storage tanks.

sweater; runs molten wax, containing oil, into trays to cool; places trays on shelves of oven, and opens valve to turn on steam in oven, causing oil to exude from wax leaving pure wax still solid on trays; allows oil to drain away and by further heating melts wax, and pumps it away to be further purified by treatment with charcoal and fuller's earth.

tankman (copper, wet process); shovels copper ore, after calcination, into tank, opens valve to run in weak solution of acid and operates mechanical stirring apparatus, thus dissolving and freeing ore from lighter and more soluble impurities; runs out liquor and shovels out purer ore ready for extraction of rest of copper by wet process.

tannin extract maker; a process worker g.v. in charge of plant for extracting tannin from bark; feeds strips of tannin bark to bark cutting machine, which cuts bark into chips; shovels chips on to false bottom of tank and runs in water, opens valve passing steam through coil below false bottom, thus heating water and extracting last traces of tanning; runs out liquor into tank and adds blood or alumina to bleach it, runs it into evaporating tank heated by opening steam valve admitting steam to jacket, and evaporates liquor under reduced pressure by opening valve connecting tank with gas pump; after evaporation, runs out tannin extract into containers for despatch.

tar recovery attendant (mineral oil refining); runs crude oil and sulphuric acid into run vessels and opens valve admitting jet of compressed air to stir them; allows tarry matter and acid to settle out and runs off oil; runs in caustic soda solution, stirs up mixture by compressed air as above, and separates soda tar by drawing off pure oil; washes both acid and soda-tars in water, separates them from washing liquor, and pumps tar off to storage tanks; liquor from acid tar washing is used for manufacture of sulphate of ammonia.

towerman; (i) see column man; (ii) dissolver man; opens valves to pump sulphuric acid up to tank at top of tower, to run it therefrom over copper ores in tower and to pump air up tower against acid; acid on reaching bottom of tower runs into storage tank as sulphate of copper; tips fresh copper ore into tower from time to time; runs off sulphate of copper to crystallizing plant.

towerman, acid; Glover towerman, see column man.

towerman, separator (explosive); extracts nitric acid from waste acids after nitration, by opening valve which allows mixed sulphuric and nitric acids, i.e., waste acid, to run out of tank at top and run down a tower which is heated at bottom, passing nitric acid to be driven off as nitric fumes, which are subsequently condensed; runs out sulphuric acid from bottom of tower into cooling vessels, and pumps them thence into storage tanks; regulates valves, levers, etc., when running acid down tower, and passing brine through cooling coils, etc.; sometimes done by denitrator (142) g.v.

towerman, sulphate of soda, see condenser man (hydrochloric acid).

towerman, sulphuric acid, see column man.

ultramarine maker; weighs out and mixes, by shovelling them into lever-operated grinding machine, dried silica, iron, sodium, carbonate, charcoal, and sulphur; shovels mixture on to hearth of closed muffle furnace, and tends to gas or fire which heats furnace, thus taking mixture; takes out calcined mixture and mixes with more sulphur, and calcines again; repeats this until product is of desired colour (ultramarine); grinds ultramarine, when sufficiently cool, for use.

vatman (gun cotton), see washer (gun cotton).

vat runner, see liquor maker.

viscous man (artificial silk); general term for men employed in viscous department, prior to spinning of artificial silk, including acetate of sodium maker, cellulose acetate precipitator.

vitreous enamel maker; general term for any man engaged in mixing, fusing and quenching vitreous enamel, including dry grinder (vitreous enamel) (143), kiln man (vitreous enamel) and kiln laborer (vitreous enamel) (140) g.v.

vitriol man, see sulphuric acid man.

washer, cellulose acetate washer; attends plant for washing cellulose acetate, prior to spinning artificial silk.

washer (gun cotton); boiler (gun-cotton), steeper, cut man (gun-cotton), place in vat mixed cotton (i.e., gun-cotton) received from nitration, (gun-cotton) g.v., opens valve to run in cold water, stirs up mechanically, admits steam until water boils, to remove acid up to 1 per cent., and runs off washing water; repeats this operation several times in order further to remove acids used in nitration process and to hydrate unsoluble bodies in cotton; finally washes in cold water and leaves cotton in vat for beater (148) g.v.

washing crystal maker, washing soda maker, see soda maker.

waster; produces lead massicot (a powdery yellow oxide) by a process similar to that used by litharge maker g.v.; furnace is slightly different and temperature of action lower.

Weldon recovery process man, see oxidizer man.

Weldon's plant man; employed on any process in production of chlorine by Weldon process; may do any one or more of processes described below; shovels pyrolusite (natural manganese dioxide) or runs in Weldon mud, from previous working into still, runs in hydrochloric acid, and opens valve which passes steam into still to drive off chlorine; at end of reaction, runs out manganese liquors into tanks in which he also runs milk of lime to neutralize acid, stirs mixture mechanically and pumps it to settling tank, runs off clear liquor and passes it, together with milk of lime solution, down oxidizer towers on which steam and compressed air are passed; blows air through liquors for some hours till manganese is ox-

dised, withdraws samples for analysis at intervals to note progress of oxidation; when complete runs out liquor and mud that has formed into settling tank; runs off clear liquid and runs mud into chlorine still for next process.

white ash finisher, *see* black ash maker; *obsolete*.

white glycerine maker; a process worker *q.v.* who makes pure glycerine from glycerine by rectifying glycerine and clarifying distillate by mixing it with powdered charcoal and filtering; shovels powdered charcoal, in measured quantities, in steam jacketed tank containing glycerine; turns on steam and starts mechanical stirrer to heat and mix tank contents; glycerine vapour passes to condensing tank; opens valve to start air pump, which flows glycerine to a filter.

white lead carbonating man, *see* carbonating man.

Yarvan man (paper); an evaporator man *q.v.* in charge of special type of evaporating pan called a Yarvan in the soda recovery process in paper manufacture, in glue making, etc.

148.—OTHER SKILLED WORKERS.

acid shop worker (celluloid), *acid worker* (xylene factory); general terms covering persons employed on machines for nitrating cotton, or paper made from cotton, in process of making celluloid or xylene; may mix nitric and sulphuric acids in cooled tank, weigh out cotton, put it in nitrating pan, and run in acids, and at end of operation, run off acids to denitrating plant, etc.; *cf.* acid worker (143).

talum kieve man, *see* alum maker.

talum maker; *alum kieve man*, shovels alum cake into tank into which he runs water, opens valve admitting steam to steam jacket or coil, thus heating contents of tank; starts up mechanical stirring gear; makes up solution of potassium sulphate in similar way and runs it into tank, stirring contents mechanically during addition; evaporates solution by continuing steam-heating, and by further stirring, causes small, and therefore fairly pure, crystals of alum to settle out; runs off residual liquor and washes crystals and stirr, mechanically, in cold water to remove impurities and adherent liquor.

ammunition maker; general term covering all persons engaged in making ammunition, *e.g.*, composition maker (explosives), dipper (gun cotton), filler (149) *q.v.*; *cf.* explosive worker.

anatto maker; natural dye worker, vegetable dye extractor; extracts anatto, a yellow colouring matter, from pulp round seeds of shrub grown in West India; shovels seeds into hopper feeding roller mill; puts in alcohol to dissolve out anatto, which drains into storage tank.

anode man (copper refining); anode remover; fits by hand, thick anodes (blocks) of impure copper into a frame and manipulates gantry to lower frame into copper refining tank containing acid copper sulphate solution; similarly, fits in thin cathodes of pure sheet copper on which electrolytically pure copper is to be deposited; switches on current; using gantry, removes anodes when sufficiently large and removes anodes, when most of copper has dissolved, leaving impurities on anode and substitutes fresh block of impure copper as anode.

anode man (gold extracting); *see* for anode man (copper refining) except that solution in electrolytic refining tank is gold chloride, and anodes and cathodes are inserted by hand.

anode remover, *see* anode man (copper refining).

beater (gun-cotton); pulper, pulp maker; tends and operates beating and peeling machine, which he feeds by opening valve admitting in washed nitro-cotton suspended in water; moves lever to start-up paddles which tear nitro-cotton into loose uniform condition and free it from grit and other foreign substances; opens valve to allow peeling gun-cotton to flow into huge blending tank; *cf.* blender (gun-cotton).

beaterman, *see* blender.

benferrer, *benferron* (celluloid); benferrer; washes pulps and bleaches nitro-cellulose to whiten it. **blender** (gun-cotton); mixes all gun-cotton made in explosives factory in a day or other suitable period in order to obtain perfect uniformity, opens valves so that as soon as made, in form of slurry with water, it flows by force of gravity through enormous blending tanks, mechanically agitated, to render it uniform throughout. When blended, runs slurry to centrifugal drier for drying by *strickle* *q.v.*; starts and stops agitators as necessary.

blender (cordite); bundles together various sizes of cordite sticks and sticks up with tape; rejects faulty sticks.

blender (gunpowder); places previously weighed ingredients, i.e., carbon, saltpetre, etc., in a special mechanically driven motor mill, controlled by hand lever; when materials are sufficiently blended or mixed, removes mixture from mill with scoop by hand.

boiler, dyewood liquor, *see* dyewood extract maker.

borax maker; borax refiner; one of a gang of men, usually four, who prepare commercially pure borax from native boron compounds by feeding them to grinding machine, and shovelling powdered compound into tanks, running in water, opening valve admitting steam to heating coil or jacket; mix air mechanically to aid solution of solids; run off liquor to settle, and run off clear solution to crystallizing tanks to cool and crystallize, rake out crystals of borax as formed, or scrape them off sides of tank and strips of lead suspended in liquor.

carmine maker; cochineal dresser; makes carmine (a colouring matter); shovels cochineal insects into steam jacketed kettle, turns on steam, maintains boiling point temperature for some time, and opens valve to strain off liquid into a vat; runs in water and shovels in lump alum, or run in alum solution to precipitate colour; opens valve to drain off liquor and washes precipitated color by running water through vat; dries precipitate by placing it on blotting paper on shelves of drying room.

casten worker; general term applied to workers employed interchangeably in different processes making casten or castens, such as gallatin, erinoid, emphath, anoid, etc.

cell room assistant; assists cell room man *q.v.* in shovelling salt, running in water, starting up stirrer, etc.

cell room man; shovels salt into tank-runs in water and sets mechanical stirring gear in motion, causing salt to go into solution; pumps solution into storage tanks and pumps it thence to electrostatic cells in which chlorine and sodium hydrate are made; controls flow of solution by means of valves; *cf.* *e.c.* worker (149).

centrifugaller; in charge of centrifugal drying machines into which he pumps nitro-cotton, i.e., gun-cotton, in suspension in water from blending tanks; starts centrifugal machine which drives out, by centrifugal force, through fine cylindrical stores, most of water from nitro-cotton; starts dried product out of pipe of machine; starts and stops pump and centrifugal machine by means of levers.

chamber man (white lead); makes white lead by chamber process:

hangs strips of metallic lead in a chamber in which sulphuric acid is waive pots containing acetic acid; has chamber sealed by hand breaking up doorway and caulking of crevasses with rag, opens valve admitting steam to steam coil, thus heating chamber and by opening another valve, fills and by opening another valve, fills chamber with carbon dioxide; leaves chamber till lead is corroded by formation of basic lead carbonate or white lead; unseals chamber at conclusion of process and removes corroded lead as lead carbonate to place where uncorroded lead is extracted by grinding and washing; *cf.* white lead grinder (149), and beck man (149).

charge man (explosives); is in charge of process or processes in a workshop in which explosives, or materials for making explosives are prepared, assembled, including such cartridges, fuses, primers, detonators; supervises certain skilled workers, *e.g.*, blenders, incorporators, or himself performs skilled work without supervision.

chemical worker; carries through various processes under direction of process worker (143) *q.v.* and with assistance of chemical labourers (149) *q.v.*; duties consist in performing any single process operation in which he is usually skilled, for types of which, *see* process worker (143).

cobalt dissolver; a chemical worker *q.v.* who works at a series of pans or tubs in which calcined oxides of cobalt and nickel are dissolved in hydrochloric acid.

cobalt divider; a chemical worker *q.v.* who works at tubs or vats in which cobalt and nickel are separated by precipitation.

cothelene dresser, *see* carrying maker.

composition attendant; assists composition maker (matches) *q.v.* in weighing and mixing materials for composition in which match sticks are dipped to form heads.

composition mixer (detonators, etc.); composition mixer, weighs out match weights out and mixes, by hand, fulminate of mercury, antimony sulphide, magnesium, aluminium and other compositions for percussion caps, detonators, rockets, lights, flares, star shells, etc.; for making mixing, *cf.* composition maker (149).

composition maker (matches); (i) paraffin, or "afrike anywhere" matches. Weighs out prescribed amounts of ingredients, i.e., powdered potassium chlorate, phosphorus, glue, and powdered sulphur, and sets match composition, and mixes them by hand stirring, adding a little water to form mixture into a paste; (ii) safety matches, weighs out ingredients and mixes up composition in two parts, one, in which match sticks are to be dipped, consisting of potassium chlorate and glue, etc., the other, for coating match box, consisting of phosphorus and glue.

composition worker; assist maker; weighs out, measures, and mixes in a grinding machine, or with hand pebble and mortar, chemicals, dry or in solution, in making up patent medicines, ointments, perfumes, etc., according to formulae; sometimes specifies ingredients, designated according to product compounded, *e.g.* drug compoiser, ointment compoiser, perfume compoiser.

compressor, carbonic acid gas; operates a pump which pumps pure carbonic acid gas (carbon dioxide) under pressure through cooled pipes into strong cooled chamber, where gas liquefies at a certain pressure; opens taps in chamber bottom and draws off water, or air, cylinders placed thereunder; operates, etc., apparatuses pumping gases through cooling pipes.

cooler (gunpowder); places trays of black powder in stores, controls, by means of valves, water, or air, drying apparatus; shakes trays periodically to present fresh surfaces of powder for drying, and removes trays when powder is dry.

cordite maker; an incceptorator *q.v.* who also adds sections to assist incorporation of cordite into the cordite paste worker, see moulder, (explosive).

cosmetic maker; a compounder *q.v.* who weighs out, measures and mixes by hand, or mechanically, ingredients of cosmetics according to formulae.

detonator maker, electric; an explosive worker *q.v.* who places, by hand, number of metal detonator tubes in a perforated metal holder, inserts holder in machine which automatically fills tubes with high explosive, sometimes inserts, by hand, strip of platinum wire in each tube; withdraws filled cases ready for use filler (149) *q.v.* cf. detonator filler (149).

digester, digester man (white lead, white lead digester man) pumps acetic acid into wooden tubs or vats containing granulated lead, and pumps out lead acetate solution, when it is sufficiently strong, to carbonizers, cf. carbonating man (143); for conversion into white lead; operates pumps by hand lever, coals and cleans them.

dipper (gun cotton); receives dried cakes of gun cotton from nitro-cotton dryer *q.v.* and dips them, by hand, in bath of melted paraffin wax to obtain protective coating; withdraws and puts aside to cool and solidify wax; regulates valve admitting steam to jacket or bath of paraffin wax, and adds fresh wax as required.

dipper (matchbox) (lead dipping) receives from frame filler (149) *q.v.* dipping frame containing about 4,000 match splints, and beats tops, *i.e.*, heads, of splints by holding frame over heated iron plates, immerses splints head down, in bath of paraffin, and then in shallow tray of warmed match composition, sets frame aside, in heated room, to dry, dips steam-heated tray with match composition at suitable intervals, and regulates flow of steam to jacket of tray to ensure match composition being kept suitably fluid; (working dipping) mechanism, machine and; empties boxes of splints into hopper of machine which conveys match splints automatically, head downwards, in perforated endless belt, over hot metal plate, then into bath of paraffin, and thence over roller which revolves in bath of heated match composition; belt then passes with matches over series of rollers in a heated atmosphere to dry and machine finally ejects finished matches into containers.

displacement man (celluloid); spirit dryer; attends apparatus in which water in nitrated cellulose is displaced by alcohol.

display hand (fireworks); pyrotechnician; assists at fireworks display, lighting fuses to fire rockets, set pieces, roman candles, etc., after fixing fireworks on suitable framework, and attaching fuse for purpose of lighting; travels to any part of country as required; when not engaged, works in factory as a filler (firework) *q.v.*

dryer, fulminating; pours from containers quantities of fulminating powder on to mudin discs placed on table of drying room; switches on electric fan to create air current to dry powder, shakes disc periodically to prevent fresh surface from drying; pours dried powder into vessels for use in detonator mixing.

dryer (gunpowder), see storeman (gunpowder).

dryer, nitro-cotton; drives water out of wet gun cotton by spending it on trays in warm air drying stove, removes it from stove when dry; regulates heat of stove by opening or closing valve admitting steam to steam coils; on, by feeding it into a hydraulic press which compresses it into a cake; while cake is in press, forces alcohol through it, thus driving out residual moisture; removes

cakes of gun cotton and places them on shelves in current of dry air to remove alcohol.

dryer, spirit, see displacement man (celluloid).

dyewood extract maker; dyewood liquor boiler; shovels chips of dyewood into tank, runs in water, opens valve admitting steam to steam jacket, and, using a pole, stirs to promote extraction of dye; when most of dye is extracted, opening a valve, runs off liquor and evaporates to small bulk in steam-jacketed tank.

embrocation maker; a compounder *q.v.* who measures out, weighs, and mixes together various ingredients of embrocation according to formulae.

emulsion maker (photographic); measures and weighs ingredients of emulsion intended for coating photographic plates, films, or paper; mixes, by hand, in tanks or earthenware bowls, or, more usually, puts ingredients in bags and switches on pump, causing him to revolve; when ingredients are mixed stops and empties bag.

emulsion melter (photographic); melts sensitive emulsion used for coating plates, films or papers; places silver-lined vessels, containing cold (jelly) emulsion, in tank of hot water; opening valve, bubbles steam through water to maintain boiling point; removes vessels when emulsion liquefied.

emulsion washer (photographic); washes solidified photographic emulsion to remove by-products; places blocks in emulsion tank, turns on cold water; turns over blocks repeatedly to remove salts in emulsion, after specific period, opening a valve, runs off water and removes blocks from tank for emulsion melter (photographic) *q.v.*

examiner (cartridges), see viewer (cartridges).

examiner, fuse; examines fuses to ensure that they are correctly assembled and filled, tests each fuse with gauge and by hand to ensure that fusing pin is properly inserted; usually is in charge of number of detonator fillers (149) *q.v.*

examiner (perfumery) (i) (boiling department) inspects filled, unsorted bottles of scents and rejects when foreign bodies present therein; passes forward clear bottles for sealing; (ii) (packing department) inspects sealed bottles and rejects when unfit for packing.

examiner, semi fuse; examines safety fuses in first stages of manufacture (semi fuse) and rejects faulty work.

explosive worker; general term for any person handling explosives, in manufacture of cartridges or other ammunition, or of rockets, fuses, etc., *e.g.*, hydride worker, atlas maker, filler (fireworks), filler (149) *q.v.* cf. ammunition maker.

extractor, indigo; indigo maker, natural dye worker; extracts indigo from leaves of certain tropical plants; tips leaves into steam-jacketed vats, runs in water, turns on steam to heat apparatus into action; allows liquor to settle and, opening a valve, runs off clear liquid to waste; removes sediment of indigo and places on floor to dry.

extractor, vegetable dye, see annatto maker.

filler (firework); fills paper tubes or containers with specified quantities of various chemicals, ramming home with ramming tool, ready for dabbler (149) *q.v.*

filler, shell; shell packer; an explosive worker *q.v.* who (i) opens valve, drawing off into vessel measured quantities of liquid T.N.T.; (ii) pours measured quantities into each shell, usually of large calibre; (iii) places each shell in calibre shell cases on holder of Jackson's horizontal extruding machine; adjusts a special screw feed which loads each shell with known weight of explosive; operates

machine by lever; removes filled shell cases as they are automatically released by machine.

finisher (cartridges); is engaged on finish of a number of processes for inspection of finished cartridges; uses gauges, etc., to test size and workmanship; may also himself do repetition work, *e.g.*, inserting cartridge in machine which crimps cartridge case against bullet.

fish guano maker; passes cooked bones, oil, or fish scraps, received from a fisher man (149) *q.v.* through a hydraulic press, to squeeze out any condensed steam or grease, and then through a rotary or other drier to dry them ready for use as manure; feeds and empties press and drier, by means of a shovel.

foetal gland maker, see for detonator maker.

fulminating powder maker; makes fulminating powder by pouring a measured quantity of alcohol into a solution of mercury in nitric acid, opening valve in tank, filters off liquor, scoops out precipitate, places it on mudin frame and allows to dry by leaving in current of cold dry air.

fuses maker; dips, by hand, frame containing wooden match splints into slow burning composition; removes to drying room and, when beads are set, tips them with match composition by another dipping operation.

ganger (aristol); using a gauge, measures thickness of sheets and blocks of casein; marks and sorts them in readiness for further processes in manufacture of aristol, *e.g.*, dyeing, mottling; may also test, with gauge, moulded articles of aristol.

gelatine man (explosives), see incceptorator (cordite).

granulator (i) set pill and tablet machine with cakes of compressed granular powder, in order to crush them into granules; operates machine by hand lever and conveys delivery hopper containing crushed granular powder to storeman (gunpowder) *q.v.*; (ii) (T.N.T.); granulates trinitrobenzene by causing large water cooled metal cylinders to revolve in a tank of water and explosive, the machine scrapes off solidified T.N.T. or cylinder in flakes by means of an adjustable knife, flakes fall down hopper into pecking room below; replenishes supply of explosive at intervals, runs cold water into cylinders, starts-up cylinders and admits steam or hot water to jacket which keeps explosive melted.

graphiter (explosives); coats granular explosives, usually gunpowder, with graphite, by putting granules into a revolving cylinder and adding finely powdered graphite, scoops coated granules from cylinder and passes through sieve by hand.

grinder; miller; feeds and attends to grinding mill to reduce chemicals or raw materials to powder form, to prepare them for sale or for further chemical action; shovels materials into hopper, adjusts and runs machine; sometimes specifically designated according to product ground, *e.g.*, dry grinder, dry grinder (nitrobenzene channel), dyewood grinder, indigo grinder, logwood grinder, madder grinder, ware grinder.

hydrogen bench attendant (airship stations); in charge of bench where hydrogen is extracted from water gas by cooling and compression of carbon monoxide; attends to refrigerating and condensing pump and removal of liquid carbon monoxide; attends to valves supplying water gas and controls flow of residual hydrogen from plant to gas holder.

incorporator; gelatine man (explosives); gelatine water, paste worker (explosives), paste worker (cordite); feeds measured or weighed quantities of constituent parts of various

temperature man (explosive); controls temperature at which an action takes place in explosive factory, by opening or shutting valve which regulates supply of steam, cold water, brine, etc., through coils in, or jackets round vessel in which process is taking place; carefully watches thermometer which registers temperature of contents of vessel.

tester, gas cylinder; tests gas cylinders by attaching them to powerful hydraulic pump with pressure gauge attached, opens valve which slowly increases pressure in cylinder until certain standard is reached; strikes cylinder smartly with sledge hammer to ensure that it will not break when jolted; lowers cylinder into a water-filled brick testing chamber and gauges still lighter pressure.

tooth powder maker; a compounder g.v. who, working from formulae, mixes, by grinding, weighed amounts of china clay, antiseptic powder and aromatic compounds, feeds and operates grinding machine, by shovelling, operates machine by hand lever. treatment maker (glycerine recovery); mixes chemicals used for treating lye, i.e., by-product of soap making, in preparation for recovery of glycerine therefrom.

tub room man, cobalt tub room man; general term for any worker employed in or about dissolving and precipitating tubs and tanks, including cobalt dissolver, cobalt divider g.v.

turner, logwood; turns logwood chips over with a shovel to assist oxidation, prior to use of chips for extraction of dye.

viewer (cartridges), cartridge viewer; examiner, inspector; overlooks work in progress to discover defects; sometimes also gauges cartridges, using ring or rule gauge, to detect incorrectness of machine work; cf. gauger (279).

white lead maker; general term for any person engaged in making white lead by any process.

wringer (gunnott); removes excess of acid or water from gunnott in a centrifugal machine; places gunnott in machine, switches on power, stops machine and removes dried gunnott.

149—OTHER WORKERS.

acid labourer (explosive); a chemical labourer g.v. who assists in acids section of explosive factory, making nitric or sulphuric acids, or acid mixing, storing, decanting, or concentrating plants; cleans out nitric acid retorts, or acid tanks, tends to valves controlling compressed air used for blowing acid from tank to tank, etc.

acid man (dyes, galvanised sheet, etc.); assists in unloading carboys of acid received at works; wheels to acid shed, keeps stock, empties acid from carboys to tanks; returns empty carboys to store; assists in loading lorries with empty carboys.

alkali worker; general term for persons engaged in manufacture of alkali. includes alkali labourer, lime dresser, alkali dryer, caustic pecker, salt man, etc.

alum kieve lad; assists alum maker g.v. by wheeling alum from mill to tanks, shovelling cake alum into tank, etc.

alum mould man; attends to re-erecting of mounds which are filled with re-dissolved (refined) alum runs off remaining liquor bearing lamp of alum in mould which is taken to pieces for removal of alum.

anthracene man; a chemical labourer g.v. employed on anthracene plant of coal tar works; shovels partially dried anthracene into revolving oil extractors (whizzers), or bags anthracene, etc.; cf. anthracene man (143). arsenic labourer; a labourer g.v. who assists generally in arsenic plant, wheeling coal, and ore, clearing out condensing chambers and flues, and in

any unskilled work connected therewith.

beck man; wash beck man, wash house man; shovels dumped powdered white lead which contains some unshored metallic lead into vat; runs in water, and operates mechanical stirring gear which stirs white lead powder into suspension; runs off liquor into another tank, leaving sediment of uncorroded blue lead in vat; may repeat process two or three times to ensure extraction of all metallic lead; allows liquor to stand, thus causing white lead to settle, runs off water and shovels out white lead to dry; or runs or pumps off white lead as a slurry to filter press.

bed man (white lead), blue bed man, set setter, lime bed.

bed woman (white lead), blue bed woman; as for bed man (white lead); obsolete, as work is not now permissible for women.

bitumen worker; opens valve to run off residue of bitumen from bitumen still into barrels or tanks, while still hot; cleans out still with scraper and brush, ready for next charge.

bleaching powder man; assists bleaching powder maker (143) g.v. in raking lime over and removal of powder; puts lids on casks of bleaching powder and removes casks to store.

bleach blower; loads lime into wheelbarrows, wheels it into gas-tight chambers for conversion into bleaching powder, spreads it in furrows on floor of chamber; in modern mechanical plant, so regulates inflow of steam lime and chlorine gas by means of valve, that finished bleaching powder emerges from outlet.

bleach shop worker (celluloid); assists bleachman (146) g.v. in attendance on washing, pulping and bleaching machines.

bleaching house man (gunpowder), see mixing house man (gunpowder).

blower, blower man; (i) attends to valves controlling compressed air which he uses to blow liquids, usually acids, not easy to pump from storage tanks to plant, or vice versa, or from place to place in plant; sometimes specifically designated, e.g. acid blower, chemical blower, sulphuric acid blower; (ii) fan man, jet man; controls blower or fan for driving gases from place to place in chemical plant.

blue bed worker, see setter, lime bed.

boarder-up (matches), see filler, frame.

bogie man (explosives), bogie runner; charge house man (gunpowder), runner, service trolley, trolley man; wheels bogies (small trucks) of raw materials, intermediate or finished products, between stores and scattered workshops of explosive factory as required.

bonier, bone (manners); bone dresser (cartridge); (i) tips, shovels or places raw bones in large iron pots or pans, runs in water and opens valve admitting steam to jacket or coil, thus boiling bones to extract all grease and dirt; runs off liquor leaving cleaned bones ready for grinding; (ii) places bones to be cleaned in covered metal pot, and controls valve of open steam pipe leading thereto; digests bones with steam under pressure, runs off liquor as before.

bone manure man; general term for any unskilled worker, other than a maintenance man, employed in a bone manure factory, boiling, sawing up, calcining and grinding cleaned bones or assisting in any of these operations. bone meal man; a grinder g.v. who grinds up bones for bone meal.

bottler (chlorine), see packer, chlorine. bottler (disinfectants), corker; operates bottle-filling machine which fills four bottles simultaneously. the, by hand, loosely corks bottles and presses corks into position with small power press.

breaker, ice; a chemical labourer g.v. who feeds and operates a machine for breaking up ice into small pieces for

refrigerating purposes in chemical works; places ice blocks into machine and depresses lever.

breakerman (shale), see feeder, breaker's.

breaker, pyrites, see dresser, pyrites. breaker, stone; a labourer who breaks pyrites or other ores, etc., by hand with sledge hammer or who places or shovels ore into hopper of crushing machine, in preparation for treatment in a furnace; shovels broken ore into baskets or trucks for transport to other parts of plant.

brine house man; an e.v. worker (143) g.v. who cleans, by hand, aeres or filters through which brine is pumped to cell room for electrolytic chlorine production, sometimes also does other work, e.g. that of cell cleaner g.v.

briquettes maker; makes briquettes from iron ore or steel scale for use in blast furnaces, shovels clay and broken ore or scale into grinding, mixing and moulding machine, which is controlled by levers.

bronze powder maker; attends to milling machine in which he grinds to a fine powder a bronze-coloured alloy of copper and zinc; shovels small metal nuggets or shavings into chase or hopper; watches smooth working of machine.

buddle man, see washer, buddle.

burner, briquette (iron ore); fires kiln in which briquettes of iron ore dust and a binding composition are burned; loads and unloads kiln with briquettes with hand rake, etc.

by-product worker (coke oven); general term for any man engaged in by-product departments of coke oven plant; includes benzol distiller (162), Pump man (363), scrubber man (363), sulphate labourer (149), tar distiller (142) g.v.

camphor cleaner; a camphor shop worker g.v. who does unskilled work in connection with distilling or washing camphor for recovery of camphor of first class.

camphor shop worker; is engaged in manufacture of (a) synthetic camphor, (b) pure camphor from crude camphor; assists processman (143) g.v. in weighing and weighing in large loads of camphor, for distilling, cleaning, tanks, etc.; cf. camphor maker (143).

cap maker, percussion cap maker; general term covering persons making percussion caps, including cap drawer (204), cap filler g.v.

capper, places holder containing cartridge cases in automatic machine which loads them with primed caps; operates machine and removes holder when primed.

capsule maker, medicated; pours, etc., powdered or liquid drugs into hopper of automatic capsule making machine, attends machine lever, and turns handle of lever, or of getting in materials as required, by pulling in strips or blocks of gelatine.

carboy man, see filler, carboy.

carrier, see service waiter (cartridges).

carrier-away (matches); carries trays of matches from dipping machine to box filling machine for use of box feeder (matches) (949) g.v.

cartridge maker; general term covering workers on automatic machines which assemble parts of cartridges. fill and finish them off, including loader, charger, filler, primer, rammer, service waiter, shotter, turn-over g.v. centrifugal attendant (celluloid); whizzer; places nitro-cellulose, after washing, in hydro extractors (whizzers); switches on power, stops machine when water no longer drains away and removes nitro-cellulose.

charge house man (gunpowder), see bogie man (explosives).

charger (cartridges), see loader, cartridge.

charger, hand burner; screens oxide (polysulphides of iron received from gas works) with shovels against vertical screen; shovels oxide into furnace through several holes; rakes over contents by hand with rake; pushes contents to discharging hole in furnace bottom, when burnt; cf. oxide burner (148).

charger, retort; runner (shale burner); tips buckets of crushed oil shale into hoppers which allow it to fall by gravitation into retort.

charger, rocket, see filler, rocket.

chemical labourer, chemical works labourer; performs work of unskilled nature in chemical works; assists chemical worker (148) g.v. or process worker (143) g.v. in various chemical processes, such as emptying, filling or cleaning out tanks, coal wheeled, cleaning out filter presses, stills, vats; unloading and carting raw materials and sending and carting about finished products; shovelling, shovelling products into vats, on to hearth of furnace, attending to stoking of fire, running liquors into and out of vats, etc., under instructions of process worker (143) or chemical worker (148); making samples of products at stated intervals from plant to laboratory for analysis; removing bags from filter presses, and taking out dried contents of bags; shovelling wet chemicals, e.g. crystals from crystal vats, into pan of hydro extractor, and removing dried crystals from pan with scoop and packing into barrels; washing out bottles or other containers by hand or by means of special machine, placing bottles inverted on racks in drying room or chamber, or any of the simpler operations performed by chemical worker or process worker under immediate supervision of same; sometimes specifically designated, e.g. acid works labourer, alkali labourer, sulphate plant labourer.

cleaner, cell; cleans out cells in electrolytic plant for manufacture of chlorine, after residual solution has been run out; removes, by hand, brine deposits from electrodes and cathodes and refills cell with brine.

cleaner, filter press; a chemical labourer g.v. who cleans out filter press after use; washes out valves, cleans pipe connections by means of hand rods, and removes traces of solids from filter press cloths and metal sieves.

cleaner, retort pipe (mineral oil refining); cleans, and keeps in working order, pipes conducting gases from retorts, in which oil shale is heated, to condensers, where oil and ammonia are condensed; uses long-handled tool with sagger end which he moves backwards and forwards along pipe wrapping out condensed tar, etc., which settles on sides of pipe and would choke it if not removed; cf. sagger (see works) (869).

cleaner, still; cleans out stills at end of distillation operation; in mineral oil refining removes coke from bottom of stills by breaking it up and shovelling out into bins.

cleanser, bone (manure), see boiler, bone (manure).

cobalt blue worker; assists cobalt furnaceman (143) g.v. making cobalt oxide, by shovelling and crushing oxide and other chemicals on to hearth of furnace, feeding and attending to furnace fire, etc.

collar, tape (safety and mining fuse); winds by hand 24 feet of safety or mining fuse on to a bobbin and secures bobbin with tape.

composition blue worker (gunpowder); see mixing house man (gunpowder).

composition maker; composition mixer, mixing pyrites (explorer); a mixer g.v. who mixes, by machine, fulminate of mercury, antimony sulphide, magnesium, aluminium and other compositions for percussion caps, detonators, rockets, lighted fuses, star shells, etc., for hand mixing; cf. composition maker (148).

cookhouse woman (white lead); fills small earthenware pots with wet cakes of white lead from filter presses, cf. white lead filter pressman, places them on shelves of large stove heated by steam pipes, and thus dries white lead; when dry removes pots from stove; shovels as work is not new person for season.

coolerman; (i) controls, by means of valve, circulation of cold water through coils or pipes in tanks of acids, etc., where temperature must be kept low; (ii) attends to vats in which strong solutions of salts are allowed to cool and deposit crystals; runs in hot solutions, and runs out weak cold solutions; removes, by hand, crystals from vat sides.

coppper bossman; turns over, by shovelling, lining of saddle iron pyrites (sulphide of iron), lying in open air, to stimulate oxidation, and thereby convert it into coppers (sulphide of iron).

corrosive disinfectant, see bottle (disinfectant).

corning house man (gunpowder); see granulating house man.

crate boy; carries crates of empty match boxes from store to box filling machines for use of box g.v., or to match-making machine, where the matches as made are automatically filled into boxes.

crusher, bone (manure); a crusher (manure) g.v. who attends and feeds a crushing machine with bones which they have been cleaned by bone boiler g.v., to break them up prior to grinding by bone grinder g.v.

crusher man, see grinder.

crusher (manure); shovels raw material into hopper of crushing machine, which breaks it up to size convenient for next process, that of grinding; watches machine for faulty work; cleans and oils working parts.

cutter, cordite; sets, feeds and operates a guillotine machine which automatically cuts cordite thread or tape to required lengths according to work for which it is required.

cutter, dyewood; saws, by hand or by small circular saw, pieces of dyewood into convenient size and feeds these pieces into special chipping machine, which cuts them into chips ready for extraction of dye by boiling in water; cf. dyewood extract maker (148).

cutter, logwood; as for cutter, dyewood.

cutter, pulp (artificial silk); pulp worker; cuts up and weighs pulp for chemical treatment in initial processes of artificial silk making.

cyanide worker; general term covering persons engaged in making cyanide compounds from any of their various sources.

cylinder house man (gunpowder); places, by hand, pieces of wood (usually alder or willow) into metal cylinders; clamps lid and drags them into a furnace for curing.

den man; shovels or takes out, into den man's tubs, finished artificial manure from dens, i.e. steel cylinders in which phosphate manure is made, and wheels bogies to store where he tips out manure.

depositing department worker (copper); fills tanks with acid, assists sagger man (148) g.v., and does other unskilled or semi-skilled work in depositing department, i.e. department where copper is refined by electrolytic process.

detonator drummer, see sifter, detonator.

detonator maker, see filler, detonator.

devilman (fertiliser); attends devilling, disintegrating or grinding machine into hopper of which he places or shovels bones that have been cleaned by bone boiler g.v. and/or crushed by bone crusher g.v.; cf. grinder.

digester man (manure); shovels into a digester house, tank, or meat still, which is slowly carried by a spiral conveyor along a pipe, in opposite direction to a current of steam; controls, by lever, etc., speed of conveyor or inlet of steam so that effluents are thoroughly cooked; cf. all fat, etc., boiled out and carried over by steam current.

digger man; controls, by lever or switch, steam or electric mechanical digger, which digs out finished artificial manure from dens, i.e. steel cylinders for conveyance to packing room or store.

dish man; attends to shallow vessels in which alum cake is cooled; opens valve to run in liquor, puts in dividers and removes cooled cake from trays, chipping wire pieces; dissolver (salt); in electrolytic preparation of chlorine, shovels excess of salt into pan, runs in water and moves lever which sets stirring apparatus going thus promoting solution of salt in the water; allows excess salt to settle and runs out solution into storage tanks.

drawer, retort (mineral oil refining); drainer, retort drainer; rakes out, by hand rake or machine, spent oil shale from retort into bins.

dresser, lime; shaker, lime, i.e. quicklime, by pouring water on it, either mechanically, modern practice, or by hand; sifts lime when slaked, by shovelling it through sieve or into hopper of mechanical sifter.

drainer, pyrites; pyrites breaker; a stone breaker g.v. engaged in crushing, by hand with sledge hammer, pyrites, an ore containing sulphur and iron for use in manufacture of sulphuric acid.

dropper, retort dropper, see drawer, retort.

dryer, alkali; places alkali crystals in hydro-extractor, i.e. a perforated cylinder revolving at high speed, with shovels or scoop; moves lever setting motion in the water; allows excess salt with scoop when alkali is dry.

dryer, ammonium nitrate; unloads casks of ammonium nitrate; breaks up nitrate with hammer, shovels into Atlas drying machine, and sifts dried powder by hand.

dryer, colour (dye); takes cakes of wet colour from drying press and lays them out in drying ovens; switches on fan, or gas drying apparatus; removes cakes from ovens when dry and trucks to store.

dryer (cordite), see layer-out (cordite).

dryer, cotton (gun cotton); places, by means of fork, washed cotton, before nitration, on travelling band of drying chamber, through which a current of warm air passes carrying off moisture; regulates speed of band and heat of chamber; places bins for reception of dried cotton when actually needed from chamber, ready for nitration (gun cotton) (143) g.v.

dryer, oxalic acid; fagel man (oxalic acid); as for dryer, alkali.

dryer, splint (match); splint frames which have been treated by impregnator g.v. on shelves of drying oven; removes frames when dried and places them on trolleys for conveyance to clippers (143) g.v.

dubber (fireworks); closes and seals ends of paper tubes containing stars and fuses; folds and varnishes in by filler (fireworks) (148) g.v.

dusting house man (gunpowder); places (gunpowder); shovels or scoops gunpowder into hopper of machine which sieves gunpowder after gravity in order to extract dust, which is returned to incorporate (148) g.v. for further treatment.

efflu man (glycerine recovery), crude glycerine efflu man; opens a valve, runs dilute solution of glycerine in water into machine, where excess traces it by a continuous process of evaporation in vacuum pump; removes, by shovelling, salt which is

deposited from solution and which falls into separate tank; runs out concentrated glycerine for purification.
emptier, tray; empties blocks of paraffin wax out of trays in which they have been broiled by sweaters (143) g.v.; returns empty trays to tray fillee.
examiner, see tester, milk.
fan man, see blower

fatty acid worker; general term covering all persons employed in a works in which fats are hydrolysed and resultant acids are neutralized with alkali in manufacture of soap; may perform any part of work which comprises placing, or shovelling acid lumps into steam-jacketed tank, running in dilute acid or alkali solution, and opening valve admitting steam to steam jacket to melt fats, operating mechanical stirring gear, shovelling in salt to salt out soap mass, running out separately glycerine, fatty acid, or soap, i.e., alkaline salt of fatty acid, and salt; assists in unskilled part of work of purifying these compounds.
feeder, breaker's; *breakerman (shale);* tips lumps of oil shale into hopper of crushing machine, and tends it whilst shale is broken up ready for burning; shovels crushed shale into trucks for removal to retorts.
feeder, splint (matobes); feeds frame-filling machine or dipping machine with splints; cf. frame fillee, dipper (145).

fertiliser maker; general term for any worker engaged in making artificial manure, including bone bailer, bone crusher, devilman, stone miller, mixer, screener, slag phosphate worker, trimmer, dog man g.v.
filter, blue lead, see sifter, blue bed.
filter, cap (peristaltic cap); cap primer, primer (cartridge); feeds and attends machine for filling brass percussion caps with explosive composition; as for detonator fillee.
filter, carbonyl; carbonyl man; runs into carbonyl, feeds storage tank. Measured quantity of acids or other liquid chemicals which need glass containers, ready for despatch; cocks, seals, labels carbons when filled and loads for pickup or wheels to store.
filter (cartridge), cartridge fillee, tea loader, cartridge;

filter, detonator; *detonator maker, detonator weigher;* an explosive fillee g.v. who fills small copper detonator tubes with fulminate of mercury or other detonating composition, by machinery. Places fulminate of tubes in holder, places holder in machine for automatic filling and withdraws when tubes filled, ready for use fillee or, if pressing required, for detonator pressor g.v.
filter, explosive fillee; general terms for any explosive worker (148) g.v. who fills, by hand or machine, explosive into cartridges, shells, bombs, grenades, including detonator fillee, cartridge loader; sometimes specifically designated, e.g. fuse fillee, mine fillee, mine fillee, tube fillee.
filter, frame; *frame-filler (matobes);* puts match splints into hopper of frame-filling machine, and places empty frame in position; and moving levers, fills perforated rectangular wooden frame with match splints ready for hand dipper (145) g.v.
filter, gas cylinder; controls valves connecting gas (oxygen, acetylene, carbon dioxide, nitrous oxide, etc.) pumps to gas cylinders, and continues pumping gas until a predetermined volume of gas has been pumped in as dial, stop, pump, closes valve and detaches cylinder.

filter, klier (explosive); assists klier boiler (148) g.v. by filling boiler with cotton, etc.
filter, oxygen, as for filter, gas filter.
filter, rocket; rocket charger; fills rockets with explosive and coloured fire compositions, wraps up each separately and connecting sections of rockets by a fuse.

filter, tray (mineral oil refining); fills trays with blocks of paraffin ready for sweating; work sometimes done by sweater (143) g.v.

filter-out, sheep dip; draws off liquid sheep dip from a tank into metal drums and casks, and solders openings of drums.

filterer, see mixer, silk dips.

filter man; pours or runs liquids containing precipitated solids, or suspended impurities on to frame of muslin, canvas, linen or other filtering medium; removes precipitate, after washing it, on to blotting paper, and places it on shelf of drying cupboard or chamber, to dry.
filter pressman, cobalt filter pressman; (i) operates filter press in which black oxide of cobalt is filtered and pressed into cakes; (ii) cobalt pressman, cobalt washer pressman, washer operates filter press in which precipitated oxide of cobalt is washed and the water finally expressed.
filter press man, white lead; operates filter press in Birmingham process of making white lead; constructs pipe which regulates flow of white lead suspended in water until canvas bags of filter press are filled; pressure generated by pump forces water out of canvas bags leaving comparatively dry "leaves" of white lead in bags; closes valve connecting pump to filter press, and turns lever applying heavy pressure to contents of press, squeezing out almost all liquid from bags; opens press and removes "leaves" of white lead, which are taken to white lead storeman g.v. to be dried.

finisher; gums labels on bottles and packets of chemicals, affixes cork capsules, covers corks with wax or oiled paper caps to prevent evaporation of liquid contents.
fireman, still; stokes coal or coke fire under a coal tar still, and sees to burning of waste gases (from still) therein; opens small doors (or ports) which admit air to allow gases to burn.
firework maker; pyrotechnist; general term for persons engaged in making fireworks, mixing compositions for explosion or coloured effects, assembling, wrapping, attaching instructions, etc. includes roller (150), fillee (148), chaffer, and other workers not specifically named.

formaldehyde hand (erinoid); hardens block or sheet resin by immersion in baths containing formaldehyde solution; removes after set period.
fragman (centrifugal dryer), see dryer, oxide acid.

fuse coverer, fuser; an explosive worker (148) g.v. who attaches, by hand, conical tin fuse-caps to shells, or inserts shell into a machine and depresses lever to attach fuse-cap.
fuse maker, safety fuse maker; an explosive fillee g.v. who fills and makes safety fuses.

gall roaster; places gall nuts on iron tray and roasts over gas jets or in oven until shell cracks, so that tannic acid can be more easily extracted for use in process of ink manufacture, or as dye for staining furs or skins.

gelatine capsule maker; pours pure clarified melted gelatine, draws off from steam-heated tank of gelatine, into capsule moulds to form flexible or hard capsules used as containers for liquid or for powdered medicines, drugs, etc.

getter, pitch; pitch noder; a labourer g.v. who breaks up, with steel wedges and heavy hammers, solidified pitch which has been run out as residue from tar still into cooling tank, and thence into huge brick-cut pitch bay; loads broken pitch into wheelbarrows or crane skips for removal.
gizling house man (gunpowder); reeler (powder mill); shovels, by means of scoop, granulated gunpowder into revolving barrel which, by rubbing, glass surface of granules; cf. granulator (148).

granulating house man (gunpowder); carries loose man; assists granulator (148) g.v.

grinder; crusher man, miller, mill hand, mill lad, millman; feeds and operates a grinding mill, either edge runner type, by shovelling material to be ground, on to pan of mill, or roller type, by shovelling material into hopper fixed above rollers, to reduce to powder a raw material, or intermediate or finished chemical product; sometimes specifically designated according to the material to be ground, e.g. animal charcoal grinder, arsenic grinder, basic slag grinder, bauxite grinder (manufacture of aluminium compounds), bone flour grinder (manure), bone grinder (manure), brimstone grinder, charcoal grinder (gunpowder), guano grinder (manure) (in some districts he does not usually feed mill, this being done by a labourer), red lead grinder, white lead grinder.
grammetter; ties grammets, loops of rope, on shells to protect copper bands, e.g. of animal charcoal, which project and which might otherwise be injured in transport.

halper (wet process); copper millman (wet process); millman (wet process); shovels or tips crushed copper ores into vats, and opens precipitate into smelting furnace; also does other manual labouring work in connection with treatment of copper ores by wet process.
hydro extractor (operated); shovels wet crystals of chemical compounds into perforated drum of hydro extractor machine, which rotates by means of machine, i.e. rollers, round of cylinder, which drives crystals by centrifugal force; shovels out dried crystals when operation is complete.
impreginator; fillee frame, cf. frame fillee, with safety match splints and dips, bands and set period in a bath containing impregnating solution, ether phosphate of aluminium, or boracic acid, to prevent glowing of wood after match is blown out; puts frames on shelves in drying room to dry ready for dipping.

jet cleaners; cleans metal pots with nozzles to ensure free flow of alk dip in spinning of artificial silk.

jet man, see blower.

kill labourer (vitreous enamel); feeds kiln with prepared ingredients of vitreous enamel; draws material, taking care to distribute powder evenly; rakes out fused product, which he quenches with water from a hose; rakes this over to expedite drying of finished enamel or flux.

knocker-down, bleach knocker-down, see packer, bleach.

layer-down (cordite); dryer (cordite); *storeman (cordite);* stores (cordite); lays out cordite cord and cordite sheets of drying stores or rooms, where it is heated by steam pipes to drive out acetone, ether, or alcohol used in incorporation of explosive, cf. incorporator (149).

liquor man; is engaged upon an acid plant; does unskilled or semi-skilled work, e.g. opening valves to allow mother liquor to flow back from crystallising tank, starting pump to draw liquor to Glover tower, testing liquor for residue for chemist's test.
loader; a chemical labourer who loads packed chemicals on to trucks, lorries, vans, etc.

loader, cartridge; cartridge fillee, charger, fillee (cartridge); an explosive fillee g.v. who fills cartridges with cordite for other explosive and covers charge with felt or cardboard wads, by machine, or for fillee, detonator.

luter; applies lute or luting, composition to exclude air, with a brush or screw threads of fuses, plugs, etc., ready for firing.

matchmaker; general term for persons engaged in making or packing matches, includes frame fillee, impreginator, racker-out, splint dryer, splint feeder, splint splitter g.v.

mill, mill hand, mill lad, millman, see grinder; sometimes specifically designated according to product to be milled, e.g., alumina millman, bauxite millman, coprolite miller, miller (manure), phosphate miller, stone miller (manure).

millman, copper millman (wet process), see helper (wet process).

millman (gunpowder), assists grinder (143) or incorporator (145) g.v. in mixing house.

mixer, bark; mixes fresh tea bark, i.e., tannery waste not previously used in white lead manufacture, with bark that has been used, by turning over both with fork or shovel; prepares mixture for use by line bed setter g.v.

mixer (chemicals, disinfectants, fertilizers): (i) runs liquid for mixing, in specific order, into tank and moves lever setting mechanical stirrer in action, to ensure complete intermixing of contents, as complete chemical action; when action is complete, or, liquids thoroughly mixed stops mechanical stirrer; pumps fluid mixture into storage vats; (ii) mixes liquid and powdered solid in similar way, by hand stirring using a wooden stirrer; adds solids by use of scoops or shovel, or by opening door of chute; (iii) mixes two solids by shovelling them together into hopper of grinding mill and operating mill.

mixer, composition, see composition maker.

mixer, dry (medicinal powders); a mixer (chemicals) g.v. who mixes powdered chemicals, etc., according to prescribed formulae, usually by weighing out proportions, emptying them into pan and stirring up by mechanical stirrer or by hand.

mixer, silk dups; *gilder*; prepares and filters silk ready for spinning artificial silk.

mixing house man (gunpowder), *mixing house worker* (gunpowder); *blending house man* (gunpowder), *composition house worker* (gunpowder); assists in gunpowder mixing room, wheels ingredients in from store, assists in weighing them, pours them into large mixing pans and stirs up by mechanical stirrer until mixing is complete; empties mixed gunpowder out of pan by means of scoop into barrels.

mixing operator (explosives), see composition maker.

mundic cleaner; assists pyrites harner (145) g.v. which pyrites ore to be cleaned, shovels harner ore therefrom and wheels to warehouse or to railway trucks.

nitroglycerine powder worker, *nitroglycerine worker*, *nitroglycerine millman*; an explosive worker (148) g.v. engaged on repetition work in nitroglycerine manufacture, e.g. opening valve to run glycerine into acid tank, measuring liquids, washing nitroglycerine with soda water solution, opening valve to pass explosive through cooling coils.

packer, alkali, as for packer (solids); usually packs alkali, i.e. soda crystals etc., in casks or brown paper packages.

packer, arsenic; packs finished metallic arsenic oxide in casks ready for despatch.

packer, bleach; *bleaching powder packer*, *bleach packer*, *black packer*, *black packer*, *black packer*, *black packer*; shovels bleaching powder from floor of chamber, where it was made, down through holes in floor whence it falls through chutes directly into casks below; in mechanical bleach production, attends to draw hopper, pushes away filled casks and replaces them by empty ones under delivery spout.

packer, caustic; attends to handling of troughs and ladles for transferring caustic liquors from pot to pot, and assists caustic finisher (143) g.v. in packing it into drums and sealing them.

packer (chemicals); *liquids*, runs measured quantity of chemical liquids into bottles, tanks, carboys, drums, or other suitable containers; corks, or

in other ways seals container, and may also label same, ready for stores or clients; *solids*, *crystals*, *powders*, etc., packs weighed or measured quantities of solid chemicals into cardboard, wooden or tinplate containers, casks, or sacks by means of scoop or shovel, ties up or seals container, and labels same according to contents.

packer, chlorine, bottler (chlorine), *solvent man*; opens valve and so draws off liquid chlorine from strong steel tank, in which it collects as made, into steel cylinder on weighing machine, until known weight of chlorine is in cylinder; removes filled cylinder on trolley.

packer, sulphate of ammonia; *salt filter*; shovels fixed weight of sulphate crystals into sack, and sews up sack ready for despatch.

paint machina girl; places number of match box covers on endless feed belt of machine which adds to each paint, on which "safety" matches will ignite, to sides of match box covers; or, removes covers as delivered on hand from machine.

paraffin attendant; attends to and replenishes as necessary steam-heated bath of melted paraffin used in heated splines are dipped, either in dipping machine, or by hand dipper (145) g.v. in a frame; shovels wax into bath, stokes furnace fire or adjusts steam to steam packet, etc.

paste boy, *sheep dip*; wheels empty drums or casks to sheep dip filler-out g.v.; brushes labels over with paste ready for sheep dip labeler (340) g.v. and stencils marks on drums and casks.

picker (gun cotton); an explosive worker (145) g.v. who picks grit, etc., from cotton before making of gun cotton.

pick harrow, see getter, pitch.

picker, prepacer; (i) applies by hand with brush or knife, medicinal preparation of adhesive consistency upon linen, leather, silk, or other fabric; (ii) operates machine to do work described above.

picker, detonator; puts electric tubes into perforated plates ready to receive explosive charges; as for filler, detonator.

pocket man (copper), *pocket picker* (copper); shovels calcined copper ore from furnace, and empties it from barrows into washing tanks preparatory to being treated with acid in wet process.

precipitator (copper), *precipitator man* (copper); zincine run (600-cwt) machine which calcines copper ores in tank, runs in acid, controls mechanical stirring apparatus; drops or shovels in iron scrap, turnings, etc., to solution formed, and stirs to assist precipitation of copper from solution; runs off liquor and adds fresh water to wash deposited copper, ready for melting.

preparer (i) see prepacer, cotton; (ii) see prepacer, paper.

preparer, cotton (artificial silk); *preparer*; feeds machine with cotton to be teased out, i.e. loosened, prior to chemical process.

preparer, paper (artificial silk); *preparer*; feeds sheets of paper to machine which cuts them up prior to chemical process.

presser (cordite); using hand masher, runs weighed amount of cordite paste into metal cylinder having perforated base, and passes to moulder (explosive) (145) g.v.; sometimes himself moulds.

presser, detonator; presses detonating composition into detonators, tubes, etc., by special press; places filled detonators, etc., of filler, into press and depress lever.

press house man (gunpowder); assists *primer* or *pressman* (148) g.v. in press house; wheels trucks of milled gunpowder to *pressman*, and tips or empties it into hopper (145) g.v.; places cakes of gunpowder on trucks and wheels them away.

press man, cartridge; feeds and operates machine for compressing

gunpowder into cylindrical pellets for use in blasting charges in mining.

pressman, cobalt; *cobalt washer* *pressman*, *washer pressman*; see *filter pressman*, *cobalt*.

primer, cap (percussion caps); *primer* (cartridges), see *filler*, *cap* (percussion caps).

primer, electric (ammunition); as for detonator filler.

printer, wad; stamps or stencils size of slot on end of cartridges.

purifier, effluent; (i) attends to purification of liquors allowed to run to waste from chemical or other works, shovels into prepared hollows, special chemicals to render liquors harmless; (ii) controls flow of liquors through settling tanks, shovels therein neutralising agents and similarly removes sediment when tank is empty of liquor.

pyrotechnist, see *firework maker*; cf. *pyrotechnist* (145).

racker-out, *racker*; matches out of frame in drying room after they have been dipped and dried, and empties into wooden containers; cf. *dipper*, (hand dipping) (145).

reloader (cartridges); runs home, felt or card and wad, into paper case in hand press, after it has been filled with explosive.

reeler (cordite); winds cordite, after smoothing by charge moulder (148) g.v., on to light wire, alternated zinc wheels, ready for drying.

reeler, fuse reeler (mining and safety fuses); winds fuse on to reels by machine; fixes reels on machine and sets machine in motion; stops machine and removes reels when indicator shows that correct length has been wound.

reeler (powder mill), see *glazing house man* (gunpowder).

refined chalk worker; a chemical worker g.v. making refined chalk to be used as a base for pills and tablets; shovels powdered chalk into tank, runs in water and stirs stirring gear in motion; runs off pured chalk in suspension in water and repeats operation till chalk is thoroughly washed and all impurities have sunk to bottom of tank; allows liquor to stand to deposit chalk; runs off water and shovels out purified (levigated) chalk on to trays to be dried in drying chamber.

retort assister, see *rodman*.

rodman; *refill*; carries oil shale retorts which have been jammed, by pushing shale with long iron rods.

roller man (white lead); feeds and attends to power-driven crushing rollers, through which he pushes corroded lead strips to powder up white lead ready for the process of extraction of metallic (blue) lead, which has escaped corrosion, by *beck man* g.v.

runner (explosives), see *hogie man* (explosives).

runner (shale burning); see *charger*, *retort*.

salt filler, see *packer*, sulphate of ammonia.

salt man (alkali); a *hogie man* g.v. salt man; salt from store to salt tank, where wheels salt from store to salt tank, decomposing pan man (143) g.v., or in electrolytic process of chlorine manufacture, shovels salt into solution, in which it is used up as a solution.

sawyer, bone (vanner); saws up large bones by half off them against a circular saw, & separates best parts, used for cutlery handles, from inferior parts which are to be ground up for manure.

scrubber (manure); tends an automatically fed screen which separates oversize particles from material discharged from grinding mills; oils bearings, flanges and stops screws required by means of a lever; may also shovel rejected lumps into trucks or barrows for further grinding.

separator, gun cotton; an explosive worker (145) g.v. who assists nitrobar (gun cotton) (145) g.v. who operates valves to run off nitrating acids after process, or to run in water in place of acids.

service writer (cartridges); carrier, trucker; carries on small hand trucks, materials or half finished products to or from various workers.

service writer (explosives), see bogie man (explosives).

setter, blue bed; bed maw (white lead), blue bed sian, blue bed worker, blue lead filler, blue lead setter, stock maw; spreads thick layer of spent tan bark on floor of large brick chamber; sets thorough slake earthenware pots containing dilute acetic acid, and rests strips of metallic sheet lead on top of pots; covers this layer with boards; builds thence another layer, and so on, until stock so made reaches nearly to top of chamber; pauses due of chamber and keeps closed until corrosive action complete, e.g., six weeks; meanwhile decar, takes down stock, removes white lead formed.

setter, blue lead, see setter, blue bed.

setter, pots; assists blue bed setter g.v. by putting pots in blue beds in stock process of white lead making.

setter, stove, see storeman, white lead.

setter, vat; breaks up, with sledge hammer, black ash, of black ash maw, revolver fire (143), into lumps, which he wheels away; shovels material into lixiviation vats, runs in water, bubbles in steam, heating until liquor reaches standard by Twaddell test, runs off liquor and shovels precipitate from vat for sulphur recovery.

shaker, splint (matches); puts match splints into a machine which shakes them parallel, straightens, cleans and deposits them in a box; carries boxes of splints to trolleys for despatch to match-making department.

sheep dip maker; chemical sheep dip, attends steam-heated pans in which he dissolves ingredients of arsenical sheep dip in water; starts and stops mechanical stirrer to add mixing; runs-off cooled liquor to concentrating tanks; sulphur sheep dip, general term for any person engaged in manufacture of sulphur sheep dip, e.g. drying, grinding, packing, etc.

shooter (cartridges); places shot or bullets in hopper of machine and moves lever operating automatic apparatus which fires bullets in or loads shot into cartridge case.

sifter, detonator; detonator drumman; as explosive worker (148) g.v. who feeds, starts, and stops machine which sifts detonators with sawdust after fumes of mercury charge has been pressed in, cf. detonator presser, to remove any local particles of fulminate that may adhere, replenishes saw dust hopper at intervals as required; places detonators into, and takes from, barrel of machine.

sifter (cordite); works-up, by hand, pulp of nitro-glycerine and gun cotton, transfers to a sieve box alongside leaden, mixing trough, and rubs pulp through sieve to find and extract all impurities and lumps in it.

sifter (gunpowder), see dusting house man.

sifter (nitro-glycerine powder); after mixing of nitro-glycerine with kieselguhr, carefully runs dynamite powder through metal sieve to extract any lumps which may have been formed.

stor, sizing house man (gunpowder); shovels granulated gunpowder into machine to be automatically sifted into sizes.

slag phosphate worker (mannure); general term for any unskilled worker, other than a maintenance man, employed in a slag phosphate works, e.g. grinding, wheeling, mixing, bagging, snap cap maker; tends machine which makes snap caps, for toy pistols, by sticking two narrow strips of paper together and enclosing between them at regular intervals a small quantity of explosive paste; machine may also cut caps apart; feeds machine with paper, gun, and explosive paste as required.

sorter (mannure works); picks out foreign matter, horns and hoof, pieces of metal, rag, leather, etc., from bone heaps; also sorts bones, to separate better material for use in manufacture of bone handles, buttons, etc.; cf. bone sorter (150).

spinner, semi-fuse; controls automatic machine with hand lever which spins cotton yarn round a centre core of gunpowder; replaces empty bobbins of cotton with full ones, watches proper flow of gunpowder through glass panel.

spirit shop worker (celluloid); assists spirit mixer (148) g.v. in spirit shop in recording stock of spirit, and amount issued to celluloid processmen; distributes, by hand, carefully measured quantities.

tapout girl; passes filled boxes of matches down a spout or chute of automatic wrapping machine or down spout supplying wrapper (matches) (349) g.v.

stock man, see setter, blue bed.

star maker, starlight maker; an explosive worker (148) g.v. who attends filling machines which load carbide cases of star shells with explosive and lightening chemicals; replenishes machines with chemicals, inserts cases, depresses levers.

stove hand (artificial silk); stove maw (artificial silk); places yarn in hot air stove to dry.

storeman (alkali); attends to drying soda ash for drying finished products; shovels alkali into and out of stores, regulates gas or steam valves or stoves furnace to heat drying room.

storeman (artificial silk), see stove hand (artificial silk).

storeman (cordite), see layer-out (cordite).

storeman (paints and colours); attends drying stoves in which he dries natural pigments after being refined by levigator (148) g.v.; places trays containing moist pigments on shelves of drying stove and removes them when dried.

storeman, white lead; stove maw; (i) places white lead pulp in trays, places trays on wheeled metal frames, and puts into steam-heated stoves until white lead is dry; regulates steam valve to heat stove; removes white lead from stove when dry; using trolleys, white lead from trays, fills small earthenware pots with wet cakes of white lead from filter press, cf. filter press man, and places them on shelves of large steam-heated stoves to dry, removes pots carefully when white lead is dry.

stripper (cordite), see layer-out (cordite).

stripper (artificial silk); removes yarn of artificial silk from stoves when dried.

stripper (gold, electrolytic process); using special tool, strips off deposit of gold from cathode upon which it is deposited out of solution by passing an electric current.

stripper, white bed; white bed man; empties stack or chamber and carries lead, now corroded and changed into white lead, in trays, to mixing rollers, where it ground ready for levigating in order to separate from it any remaining metallic lead.

sulphate of copper worker; assists copper sulphate maker (148) g.v. by wheeling over, running acid into tray, shovelling sediment from vats, etc.

sulphate plant labourer; does unskilled work in connection with a sulphate of ammonia, or other sulphate, plant; cleans out tanks, runs in acids and other liquors, removes crystals from crystal pans, operates and feeds hydrotractor for drying crystals, and bags crystals ready for despatch; may also attend to lining of ammonia stills, assist at stills, and help sulphate maker (148) g.v. generally tank man (tar distilling); discharges and loads crude or refined liquids from or into tanks, connecting up

flexible pipe lines and operating valves and pump; cleans tanks and tank wagons.

tar plant attendant; general term for persons employed on plant in which coal tar is distilled and individual products extracted and purified, includes tank man g.v.

tar works labourer; does general labouring work in tar distilling plant, e.g. wheeling coal, opening and closing valves admitting or running off liquor, cleaning tanks, cf. tank man (tar distilling).

tester, silk; denier, examiner; samples, weighs and tests artificial silk for quality when spun.

tetryl corning worker; places tetryl, high explosive, into spinning or grinding machine and depresses lever for automatic making of pellets used in shell primers.

tillage works labourer (East Coast); a labourer preparing dried and pressed sewage sludge for manure; shovels manure from drying trucks into barrows, feeds and attends grinding and sack filling machines, etc.

tipman (shale burning), see tipper (spent shale).

tipper (spent shale); tipman (shale burning); takes spent shale, after distillation from hatches on to spent shale heap or bing.

trimmer (mannure); shifts or trims by shovelling heaps of slag phosphata, etc.; shifts other raw materials or manufactured products at rock sheds or at docks.

trolley man, see bogie man (explosives).

trucker, see service writer (cartridges).

turner-over, cartridges; turns in mouth of shell caps and cartridges (spinning cartridges) to hold charge in position, using a power or hand lathe.

twister, detonator; threads by hand, electric wire through holes in cap of detonator and twists wires together by hand.

valve man, see packer, chlorine.

varnishar, fusa; (i) varnishar time runs of time fuses, etc., by dipping in varnish; (ii) varnishar parts of metal fuses.

wash back man, see back man.

washer; a chemical labourer g.v. who cleans chemicals by shovelling them into tanks running of water, dips in notices, mechanical stirring apparatus, or stirring by hand, allowing chemical to settle out and running off water with soluble impurities.

washer, anodes; washes spent copper anodes and withdraws from electro-depositing tanks, to detach metallic sludge which is to be treated for silver and gold.

washer, buddis; buddis man; washes, by directing hose on, tar bark taken from white beds, i.e., bins, beds in which corrosion of waste, strips is complete with formation of white lead, to remove residual lead and prepare bark for reuse.

washer, cathode; washes off, by hand, sulphate of copper from pure copper cathode after removal from electro-depositing tank.

washer (celluloid); feeds and attends machine through which sheets of nitro-cellulose, after bleaching, are passed over and under rollers in several water baths.

washer, crude glycerine salt; salt washer (glycerinal); a washer, g.v. who collects and removes salt through out of glycerine liquor which is being concentrated; salt falls into special vessel at bottom of evaporating apparatus, and may be extracted by opening valve and allowing it to run out, or by blowing it out by means of compressed air; washes salt to remove glycerine, by stirring it up with cold water, and running off liquor.

washer, drum (glycerine); places over steam pipe and so washes out new or old lumps and drums in which refined glycerine is to be packed for transport; removes lumps to drain.

washer (gold electrolytic process); removes, by hand, anodes and cathodes from electrolytic gold recovery bath; immerses them in bath containing strong sulphuric acid to clean.

washer, salt (glycerine), see washer, crude glycerine salt.

washer, still; a chemical labourer, e.g., employed in washing out residues in stills to clean them for further use.

wash house man, see back man.

wax vests maker; general term for any person engaged in making wax vests matches from specially prepared thin wax taper; includes duffer (148), frame filler, spout girl.

weigher; weighs out on special weighing machines (some working semi-automatically) quantities of chemicals, acetone, raw cotton, gun cotton (into rubber bags), etc., for (during manufacture of explosives or for charging of cartridges, shells, etc.), sometimes specifically designated, e.g., acetone weigher, charge weigher, cotton weigher, nitro cotton weigher.

weigher, detonator, see filler, detonator.

weigher, pulp, see cutter, pulp (artificial silk).

wheeler, wheeler-off; wheels out trolley or truck various materials in chemical works; wheels broken ones, stones, etc., from heap to furnace and ash or residues from furnace to bins; wheels in coal and wheels away cinders, wheels liquids in tanks, loads of anodes, etc., on trucks; sometimes specifically designated, e.g., ash wheeler, coal wheeler, white salt wheeler.

white bad man, see skipper, white bad.

whizzer (celluloid), see centrifugal attendant.

whizzerman, naphthalene; shovels or scoops naphthalene crystals taken from naphthalene crystal vats into large metal hulk-extractor or whizzer and moves lever operating same to extract as much coal tar oil as possible, before sending crystals on to naphthalene pressman (148) g.e. willower, gum-drier, places cotton, from picker (crystallizer), e.g., into willowing machine, starts up mechanical beaters for removal of dust and removes willowed cotton from machine.

wincing man (copper), see precipitator; chalcocent term.

Sub-order 2. — Makers of Paints, Oils (not Mineral), etc.

151.—FOREMEN AND OVERLOOKERS.

chargeman, polish; assists polish foreman g.e.; checks mixing of ingredients and gives directions to labourers (in boot, floor, etc., polish factory).

foreman, blue mill; in charge of mixing department of factory where laundry blue is made; supervises work of weighing out and mixing of components.

foreman fat maker, foreman fat melder; superintends all processes in making of edible and non-edible fats, sorting of bones, etc.; bleaches melted fat by stirring it and adding sulphuric acid and alkaline permanganate to precipitate impurities.

foreman, oil house; attends to storage of refined oil, and superintends men engaged thereon, and cleaning, etc., of tanks.

foreman, polish; supervises making of boot, floor, furniture, etc., polish, and is in charge of workers engaged thereon; allocates duties, maintains discipline, engages and discharges workers; determines ingredients and supervises weighing and mixing of them under instructions of chemist.

head varnish maker; a foreman in charge of works or part of works in which varnish is made; in charge of men employed; gives orders as to

processes to be carried out, and is responsible to works manager for quality of varnish made.

process man (paints and colours); general term for man in charge of a process or processes in paint or colour manufacture; gives instructions as to quantities to be mixed or ground, as to fineness of grinding required, etc.

small foreman, spell tone (change); a foreman in charge of a shift or spell in seed crushing, oil expressing, and cake-making plant; supervises proper working of conveyors, crushing rolls, hydraulic presses, etc.; allocates duties, maintains discipline, authorizes pay sheets.

152.—PAINT GRINDERS.

blender and dresser, colour, see mixer (leather cloth), cf. colour blender and dresser (139).

cobalt blue maker; scoops mixture of weighed proportions of cobalt oxide and alumina into hopper of grinding mill which grinds it, forming dry colour; mixes powdered colour either with gum, glycerine, and water in mixing machine to form moist (artists') colours, or with oil, etc., to form paint.

coloured stucco maker, see stucco paint maker.

colour maker (leather cloth), see mixer, colour.

colour striker, see tints mill hand.

colour worker; general term for any worker employed in making paints and colours, including colour grinder, and colour striker g.e.

dilatator maker; makes special water paint, called dilatometer, on wet or dry form, by mixing colours with a foundation, or body, of powdered lithopane, a white substance consisting of mixed zinc sulphide and barium sulphate; weighs ingredients, places in grinding mill, adds water, stearic and stops mill by lever; shovels paint from mill.

dry colour maker, see grinder (dry).

enamelled colour worker; general term for person engaged in grading, mixing, and striking enamel paint.

enamel maker, enamel paint maker, see mixer (enamel).

enamel maker (hollow-ware); mixes and grinds up in mill various components used to make high impervious enamel for applying to hollow-ware; shovels components into mill and similarly removes after grinding; cf. grinder (enamel).

grinder, colour grinder, enamel grinder, paint grinder; pugger (enamel); shovels lump colours into hopper of roller grinding mill or into pan of edge runner, and by hand lever, operates mill which reduces them to powder ready for use in making paints, enamel paints or linoleum paints; runs in oil or water for wet grinding; shovels colour from machine or opens trap to run colour into a container; in case of enamel, shovels weighed components into cake grinding mill.

grinder (dry), dry colour grinder; dry colour worker; makes high impervious enamel and operates mill in which colours are ground in dry state, i.e., without oil; sifts colours and shades them, by mixing with zinc white or other base.

lash maker, see colour mixer (leather cloth).

mixer, colour; (i) see mixer, paint; cf. colour mixer (155); (ii) (leather cloth) colour worker, wash maker; feeds and attends machine grinding colour and oil together for printing patterns on leather cloth, linoleum, etc.; as for colour grinder.

mixer, black; a paint mixer g.e. who mixes lamp black and oil by machine for coating black leather cloth.

mixer, enamel; enamel maker, enamel paint maker; attends mixing machine into which his tips or shovels paste, made by enamel grinder, ground colours and linseed oil; adds round varnish and gold size and controls

stirring apparatus which mixes ingredients thoroughly; runs out enamel when finished.

mixer, paint; colour mixer, paint maker; shovels or tips dry colours, as produced by colour maker and colour mixer (158) g.e. into mixing vat, and runs in oil, or shovels in other colour, and sets stirring apparatus in motion thus mixing thoroughly; grinds them very finely in a mill, to render them suitable for use in painting.

painter's bench hand; a paint mixer g.e. who mixes, by hand, colours with driers, oils, etc., under direction of painter (152) g.e.

paint maker, see mixer, paint; sometimes specifically designated, e.g., antiseptic composition paint maker, silicate paint maker, stucco paint maker.

paint mill man, paint miller; mixes white lead pulp with oil in semi-jacketed grinding mill; shovels in white lead, admits oil, starts up mill, turns on steam, runs off mixed paint to cooling tank.

pugger (enamel), see grinder (enamel).

shaker, colour shaker, see tints mill hand.

tints mill hand, tints mill man; colour striker colour shaker, shaker; tips weighed quantities of paint colours into mash tub; starts and stops mechanical mixing arms; adds small quantities of different colours to match required tint; discharges contents of tub through trap in bottom or shovels them out.

sine white maker; a paint mixer g.e. who mixes in a mixing machine zinc oxide with linseed oil to make a paint known as sine white.

153.—OTHER SKILLED WORKERS.

acidifier (candles); attends to copper vessel containing lime fatty acids combined with lime from autoclave; cf. autoclave man (candles); also runs in measured quantities of sulphuric acid, opens valve admitting steam to steam coil thus boiling mixture, and stirs it mechanically; adds liquor to settle and runs off fatty acids, leaving sludge of lime salt (sulphate) to be washed out.

acidifier (oil), acid man (oil), see refiner, acid.

albumen man; blood refiner; pours blood of animals into shallow pans; skims off upper layer of pale yellow serum which rises to top on standing; filters it through silk gauze into store vessels; places these in drying room until serum becomes solidified, i.e., ready for use in special gum making.

autoclave man (candles); in charge of an autoclave, or copper digester, placed underground, in which melted fat, as received from fat melter (159) g.e., lime and water, are subjected to steam at high pressure for sterilizing and regaining flow of steam which hydrolyses fat, producing lime salts of stearic or other fatty acids and glycerol; allows liquor to stand and separate into two layers, glycerol water and fatty acids, and runs or pumps them off, glycerol water to glycerine plant, and fatty acids to acidifier (candles) g.e.

black maker; a colour mixer g.e. preparing black pigments or paints from charcoal, graphite, calcined ivory or bone, carbon black, drop black, etc.

bleacher, shells; removes natural coloring matter from gum lac by stirring it up in lime and water. shovels gum lac into tank, runs in water and shells in lime; stirs mixture mechanically till colour of gum lac is absorbed by liquor, when it is then run off; shovels out bleached product and leaves to dry in drying chamber.

blender, oil; oil mixer; (i) mixes together oils in mixing tank, in varying proportions according to use for which oil is required, runs oil into tank and sets mechanical stirrer in

mation; runs out finished product into storage tanks; (u) (varnish making) oiler (ternish); pours boiled linseed oil from time to time to gum pot containing melted gum, quantity of oil added varying according to nature of varnish to be made; cf. runner, gum.

blue-mould maker, see pressman, blue, boiler, bone (size and glue), see boiler, glue.

boiler, fish oil; controls valves regulating steam-heating of pans into which he empties buckets of fish livers; draws off fish oil which exudes during process, and removes livers at end of operation by shovelling into trucks.

boiler, glue; bone boiler, glue boiler, glue vatman, vatman; controls temperature by means of valve of steam-heated tanks into which he runs water and tips degreased bones, or scraps of hides, leather, skins, etc., into vatman's boiling until a sample of liquor sets to a firm jelly on cooling; runs liquor off to another tank for clarifying, and boils up residue of scraps with fresh charge of water; also usually performs duties of glue maker g.v.

boiler, oil; oil boiler (kitchen); attends to pot or tank into which he pours, runs, or pumps, linseed or other oil, which he heats to boiling point over a furnace; stirs oil mechanically during process and sometimes adds nickel, cobalt, litharge, manganese, or other driers, to stimulate oxidation, for use in paint, varnish and linoleum making.

boiler, oil (cortine); cortine maker; an oil boiler g.v. who subjects linseed oil alone to prolonged heating, causing it to polymerize, in making cortine.

boiler, printing ink varnish (or oil), as for boiler, oil.

boiler, resin (paper, cardboard); stir maker; empties powdered resin and solution of soda ash from containers into steam-heated boiling pan; turns valve cock to admit water and steam and stirs mixture by hand with wooden stirrer; draws off size and strains through sieve into storage vat; boiler, sizing, see size maker.

boiler, varnish; tends gum pot into which he runs mixed molten gums and linseed oil, mixed by gum runner g.v., over a furnace, keeping temperature fairly constant at about 500° Fahr.; continues boiling until samples withdrawn show that amalgamation of oil and gum is complete; removes pot from furnace to cool ready for thinning by varnish maker g.v.

boiler, varnish oil, as for boiler, oil, candle maker, see trowler, candle.

child's light maker, see night light maker.

cod liver oil maker; a fish oil boiler g.v. who makes cod liver oil by heating cod livers in a steam-jacketed pan.

colour maker (ceramic); shovels weighed quantities of metallic oxides and powdered china, etc., into hopper of grinding mill, and grinds them up together to mix them intimately, places powdered mixture into crucibles and sets crucibles by means of tongs into small furnace to fuse mixture; superheats firing of furnace, usually gas fired; draws out crucible of fused material whilst still hot, and pours out fused mass into water to break it up ready for next operation of wet grinding, in a ball or pan grinding mill into which he shovels it.

colour maker (paints and colours); introduces colours, in dry state, from various chemical substances; usually makes solution of chemicals by shovelling it into tank, and running in water, or other solvent; stirs mechanically to promote solution; runs this solution into tank containing solution of another chemical similarly prepared, stirs liquid, usually mechanically to promote thorough mixing, allows precipitated colour to settle and runs off liquor remaining; washes precipitate by running in water, stirring up mechanically and allowing precipitate to settle, and running off

washing liquor; repeats this till precipitate is purified; shovels out precipitate on to trays for drying.

colour man; (i) assists colour maker g.v. in taking charge of dry colour room, serving out weighed amounts of colour to colour mixer g.v. in proper proportion.

colour worker (soap); a processman who makes colouring solutions for soaps; mixes chemical constituents in grinding mill; shovels ground mixture into steam-heating tank and opens valve to admit water or weak acid; adds measured quantity of liquid or powdered dyestuffs; starts mechanical stirrer and admits steam; when prepared, runs solution to vats or direct to soap boiling vats.

colour worker (xylene); working from formula, weighs out, measures, and dissolves in spirit, dry colour base required for colouring xylene (celluloid); runs colour, in measured quantities, from tank into another tank containing nitro-cellulose.

composition maker (printer's oiler); vatmen broken up clarified glue in water, melts it with treacle in a steam jacketed tank, stirring mixture until dissolved; adds a little Paris white (whiting), and mixes them up again whilst still warm; pours mixture into wheeled tanks or casts into shlong blocks for despatch.

cortidine maker, see boiler, oil (cortine).

degreaser, benzine degreaser, bone degreaser (benzene process), see extractor, grease.

decoloriser; attends vessels in which extracted oil is steamed to make it colorless; controls valve regulating inflow of steam and runs off condensed steam from decolorised oil.

dip maker, digger; dips and withdraws, by hand, one wick, or a number of wicks attached to a frame, into a steam-heated trough of molten wax specially prepared for making thick altar candles; continues alternately dipping and withdrawing (by raising and lowering counterbalancing pulley) attached to frame over a trough until wax has adhered to wicks; hangs frames of dips on shelves to harden; substitutes

dope maker (acroprene dope); pours or runs constituents of acroprene dope, acetone, benzol, cellulose acetate, and benzyl alcohol, etc., into large covered tank with a medium high speed stirring apparatus, and, when dope is thoroughly mixed, draws it off into wooden or metal drums.

engine oil maker; as for oiler maker (coranic).

engine oil maker, engine oil man; an oil blender g.v. who blends or mixes lubricating oils.

extractor, grease; extractor man; (i) benzene degreaser, bone degreaser (benzene process); degreaser; extracts grease (solvents) from kitchen stuff, or butchers' scraps, by dissolving fat in petrol or kerosene in agitated pans; shovels kitchen stuff, etc., into pans, runs in solvent, and controls mechanism for agitating mixture, runs off solution formed, into steam-heated solvent vessel from which he evaporates off solvent, leaving liquid grease in pan; (ii) fills large perforated metal container with kitchen waste and butchers' scraps, and places it in covered machine in which it is made to rotate rapidly; opens valve admitting steam to container, thus causing fat to melt and to pass by centrifugal force through perforations of container, together with condensed solvent, into outer jacket of machine; collects fat and water thus separated, cools and runs off water from solidified fat; empties residue from container for making into fertilizer.

extractor, oil (seed crushing); fills extracting pans with crushed oil seeds, which may or may not have been pressed to extract majority of oil, runs in some solvent, usually petroleum spirit, allows to stand so that spirit can dissolve residual oil in

seeds; runs off solution of oil in spirit to distilling plant, where solvent spirit is distilled off leaving oil; repeats process until most of oil has been dissolved out of seeds; attends valves, and discharges of spirit.

extractor (woollen mill), oil extractor; and purifier; superheats recovery of wool fats and oils from spent wool-scouring liquors, passes these into a tank and runs in refined oil or tallow which causes fats to separate and rise in form of cream; runs off liquid through filters leaving grease on floor of tank to be shovelled out for purification.

fisher, gelatin; glue preparer, glue stock preparer, lining man, skin man; shovels or tips skins and scraps of hides in brick lined pit of lime and allows them to soak to remove flesh adhering to them, removes them from lime pit, and, using scraping knife, scrapes away flesh still loosely adhering; washes in open tank, steeped in dilute acid to remove lime, and then in water to remove acid; runs out water and removes skins by means of long poles or forks, ready for glue boiler g.v.

fisher, gelatin, see glue boiler g.v.

glue maker, see boiler, glue.

gold beater's skin maker; dips skin, prepared by gold beater's skin preparer g.v., in alum, singeing and white of egg, and when dry, cuts it into small pieces ready for use by gold beaters (298) g.v.; secret processes are also in use.

gold beater's skin preparer; immerses outer coat of intestines of cows in weak potash solution, allows it to soak, with stirring and scrapes with a knife, then beats it, soaks in water and finally stretches it before passing to gold beater's skin maker g.v.; secret processes are also in use.

grader, fat; by inspection grades fat, on its receipt at factory into edibles, i.e., fats which can be purified sufficiently to be made into margarine, etc., and technically sorts fats into appropriate bins or heaps.

grease maker (lubricating); tips, shovels, or runs fats, bellows, etc., into steam-jacketed tank, in which they melt; runs in solution of alkali in order to saponify them, and adds a specified quantity of mineral oil; stirs mixture by mechanical means until required blend is obtained; runs it off into kegs, barrels, etc., for despatch.

grinder, ink; writing fluid grinder; in most factories, mixes, by grinding together ingredients, used in making ink, either with pencil and mortar or, more usually, in a machine with rollers; using shovels, feeds and empties machine; starts and stops it by pulley lever; may also grind evaporated ink into ink powders.

grinder, printing ink; an ink grinder g.v. who feeds and attends a roller grinding machine, for grinding or chilled steel rollers, for grinding ingredients of printers' ink; decides when process is complete.

grinder, writing fluid, see grinder, ink.

ink maker; writing fluid maker; makes ink by adding proper proportions of water to mixed red and ground ingredients; heats mixture, if heating is required, to proper temperature; sometimes specifically designated, e.g., marking ink maker.

Japan maker; makes a special kind of black or colour ink; mixes asphaltum for black Japan; or mineral colours for coloured Japan, in a pot set in a furnace fire, and pours in, and mixes hot linseed oil and a drier (red lead, copperas, or litharge); boils up mixture and mixes in turpentine to thin it ready for use; runs off into drums for export.

lacquer maker; lacquer mixer; a spirit varnish maker g.v. who makes a lacquer, or transparent varnish, by dissolving shellac, or damar gum, coloured with aniline dyes, in methylated spirit, or wood alcohol.

lampblack maker; burns refuse oil in a brick chamber into which, by regulating valve, he admits only a limited supply of air, causing burning oil to give off smoke and soot; scrapes soot from off sides and roof of chamber; if required in manufacture of printing ink, places soot from chamber in a crucible and sets it in a furnace to dry off residual oil and tarry matter; withdraws crucible, allows to cool and removes lampblack.

liming man, see fletcher, gelatine.

mastic maker; a resin maker *q.v.* who makes mastic, a special resin used in making pale-colored spirit varnishes and for lithographic work; shovels weighed quantity of resin into a tank, measures and pours in spirit; allows resin to dissolve and runs off solution into bottles.

mixer and charger, blue; mixes, usually with a stirring apparatus in a pan, ingredients of washing blue, which have been measured out according to a precise recipe.

mixer; grinds, by machine, ingredients for making blacking, boot polish, dubbin, etc.; tips powdered material into mixing vessel, puts in wax or fat, or runs in oil according to nature of material to be made, opens valve admitting steam to steam jacket of vessel thus heating contents, and moves lever starting up mixing apparatus; runs out blacking, etc., into steam-jacketed hoppers of filling machines, or into tubs for export; sometimes specifically designated, *e.g.* blacking mixer, boot polish mixer, dubbin mixer, etc.; also colour mixer, barium blacking mixer, metal polish mixer, polish mixer.

mixer, colour; mixes dry pigments under direction of colour maker *q.v.*; pours pigments of different colours into mixing machine operated by hand or mechanically, consisting of a vessel provided with rotating metal sails, stops machine when mixture in homogeneous and colour uniform throughout; opens valve to run colour to storage tank; *cf.* colour mixer (152).

mixer, fat or oil (soap making); oil mixer; pours oil or shovels fat from barrels into mixing race feeding steam-heated tanks and by opening valve admits steam to jacket or bubble-in steam, thus heating and melting solid fats; controls stirring apparatus to ensure thorough mixing.

mixer, ink; weighs out according to formula and mixes ingredients of ink either by hand, or more usually, in a special machine, with water or other solvent.

mixer, lacquer, see lacquer maker.

mixer, oil; (i) see blender, oil; (ii) see mixer, fat or oil.

mixer, printing ink; weighs out or measures quantities of ingredients of printers' ink (lampblack, varnish and pigments); tips them into tank and stirs by hand or mechanically to ensure thorough mixing, runs out printers' ink into drums for export; in printing works, changes consistency of printing ink, as required, by adding proportions of one or more of ingredients and mixing it up together; usually done by manager, or machine minder (529) *q.v.*

moulder, candle moulding; candle maker; pours melted candle wax into hot water jacketed moulds, through centre of which wick passes; cools moulds by running off hot water to hot water tank and replacing it by cold water, thus solidifying wax; raises candles out of moulds into frames by means of lever and cuts sticks, leaving frames of wire; replaces spoons of cotton candle wick used up by candle moulding machine.

moulder, night light; *cf.* for moulder except that night light has no wick when moulded, see wicker.

night light maker; child's light maker; general term for any person engaged in making night lights, including night light maker (130), night light moulder, night light refiner, and wicker.

oil blower; runs oil into tank, opens valve admitting steam to coil which heats oil, and also opens valve which blows compressed air through heated sludge night light maker (130), has become viscous by oxidation and suitable for use as lubricating oil.

oller (varnish), see blender, oil (varnish).

oxidizer, oil (linoleum); (i) see boiler, oil; (ii) oxidizes linseed oil by running it into steam-jacketed vessel and opening valve admitting steam to steam jacket, thus heating oil; raises temperature as oxidation proceeds; stirs oil during heating process by control of mechanical agitator; (iii) tips boiled linseed oil over scrim (coarse cloth), hung in festoons, causing it to dry at intervals (usually of a day) until almost oxidized (solidified) oil are about $\frac{1}{2}$ to 1 inch thick; cuts down skins of solid oil ready for subsequent processes in oil-rich manufacture.

petrifying liquid (paste) maker; a paint mixer (152) *q.v.* who mixes ingredients, largely silicates of soda, to form a liquid paste which is applied to stone surface as a preservative.

preparer, glue; glue stock preparer, see fletcher, gelatine.

presser, blue; blue pressman, pressman (blue); blue moulder maker; shovels or tips powdered laundry blue as received from blue mixer and charger *q.v.* into hopper of press which automatically presses blue into cakes; removes cakes ready for wrapping.

printers' varnish maker; shovels or tips a mixture of raw gums into large cast iron gum pot, and tends furnace which heats pot; stirs, by hand, continuously to ensure equal heating and to melt gums; when mixture is hot, gradually removes pot from furnace and allows contents to cool somewhat, then pours in turpentine, stirring to ensure complete homogeneity; runs out varnish into cooling tanks and therefrom into drums for export.

printing ink maker; general term for any worker engaged in any process in printing ink manufacture; includes printing ink grinder, printing ink mixer.

pressman (soap); in charge of one or more presses in soap manufacture under direction of chemist; directs work of soap boiler, caustic and specialty band, checker, cleaner, cooler, crutcher, frame filler, berring machineman, slabbing machineman, miller, pan man, fat purifier, trimmer (159) *q.v.*

process worker, glue; a general term for one in charge of glue making processes, and able to carry out all operations; includes glue boiler, glue dryer (150), glue moulder (150) *q.v.*

process worker (oil cake); general term for workers engaged in extracting or expressing oil from seeds and in compressing residual seeds into oil cake; is in charge of a process or series of processes and is responsible for smooth running of plant under his control; includes oil extractor, cotton oil refiner, pressman (180) *q.v.*

purifier, oil, see refiner, oil.

purifier, and, see extractor (wooden mill).

putty maker; tips ground whiting, and a little white lead into a tank, pours in linseed oil, and stirs mixture mechanically to work it up into a stiff paste, *i.e.* putty; removes paste by means of scoop or shovel and packs it in cakes.

putty powder maker; (i) melts metallic tin in heated pot; skins tin oxide from off surface of metal; sometimes adds white lead powder to tin

oxide so obtained and mixes them together; (ii) heats metallic tin with dilute nitric acid, to form tin oxide, decants off liquid and washes oxide with water, dries oxide in oven, and mixes it with a little white lead powder.

refiner, acid (oil); acidifier, acid maker (*cf.*); runs acid into steam-heated tank, and adds small measured volume of sulphuric acid, opens valve admitting compressed air to tank thus stirring mixture by bubbling air through; opens valve admitting steam to steam coil in tank to warm up mixture, then allows liquids to settle, runs off lower layer of impure acid; runs in acid and stirs up little caustic soda solution to neutralize acid left, runs out partly neutralized caustic solution, then runs in water and stirs again for final purification; allows to settle, and runs out water leaving oil pure ready for pecking; *cf.* and refiner (142).

refiner, blood, see albumen maker.

refiner, night light; child's light refiner; refines paraffin wax for use in making night lights; places cake of wax in large steam-jacketed tank, opens valve admitting steam to jackets thus melting wax, runs in dilute acid or other purifying agent, and stirs liquid vigorously by mechanical stirrer; allows liquid to separate, and runs off purified wax.

refiner, oil; oil purifier; refines oil expressed from seeds, or extracted from fish or kitchen waste, by running it through special oil filter to remove any solid impurities, and/or, by boiling it with water, caustic soda solution, acid or other special chemical mixture in tank containing steam coil, allowing liquors to separate and running off purifying solution, or by distillation, *cf.* distiller (142); supervises plant, makes periodic examination of thermometers for temperature, draws off samples for test by chemist, and directs operations of men employed in the refinery; sometimes specially designated, *e.g.* cod liver oil refiner, cotton oil refiner, engine oil refiner, medicinal oil refiner, rape oil refiner.

refiner, spermaceti; refines spermaceti, made by spermaceti maker *q.v.* by melting it with water in steam jacketed tank, stirring up liquids and allowing spermaceti to cool and solidify; opens valve to run off wax with impurities, and runs wax solid to spermaceti presser (150) *q.v.*

resin maker, rosin maker; sorts out resin in various qualities as imported, and picks impurities therefrom; shovels sorted resin into a coke-heated metal pot to melt, and opening valve, runs liquid resin into moulds to set.

runner, gum (varnish); charges gums into covered gum pot, and attends to careful heating of pot by gas or gas furnace; stirs gum continuously during heating process, by mechanical stirrer, and mixes in boiled linseed oil from time to time, as added by oil blender (varnish) *q.v.*; when of right consistency, runs varnish into cooling tank.

size maker; (i) sizing boiler; boils up residues of leather, etc., scrap, left after making glue, in steam-heated pans of copper; regulates temperature of pan by valve controlling flow of steam runs off size through sieve into tubs, etc., to cool and solidify to a jelly; usually done by glue boiler *q.v.*; (ii) (paper, cardboard), see boiler, resin.

skin man, see fletcher, gelatine.

spermaceti maker, spermaceti man; runs spermaceti oil into tank, and cools it, then opening valve passing cooled brine through a wire mesh in cooling jacket of tank, thus causing spermaceti to crystallize out; runs off residual sperm oil, and shovels out solid residues of spermaceti, into barrows *etc.*, for conveyance to spermaceti refiner *q.v.*

spirit varnish maker; french polish maker; tends apparatus for dissolving gum shellac in alcohol in making spirit varnishes; shoves weighed quantity of gum shellac into alcohol in a drum which revolves and oscillates automatically, to assist solution of shellac; runs out liquor, when all shellac is dissolved, into drums or bottles for export.

sponge cleaner; bleaches sponges by dipping them, by hand, in a string bag successively in solution of potassiumate of potash, hydrochloric acid, and lime water; washes bleached sponges to cleanse them from chemicals.

sponge cutter; see sponge trimmer.

sponge dresser; combines duties of sponge cleaner and sponge trimmer *q.v.*

sponge trimmer; sponge cutter; trims supported sponges by cutting off uneven edges with scissors.

stamper, stamping machine attendant; feeds slabs or tablets of soap to hand-operated, or power stamping machine, which, by means of dies, stamps impressions and wording on them.

varnish maker; opening a valve, runs live-rod into steam heated tank and adds known quantity of gum; regulates steam valve to maintain required temperature; adds turpentine to this mixture, by hand, a little at a time and starts mechanical stirrer to ensure thorough mixing; when correct proportion of turpentine has been added, and mixture well stirred, allows it to stand in large tanks to cool.

vatman, glue vatman, see boiler, glue twicker; cuts off short piece of proposed night light wick, and passes it through piece of perforated tin in centre of cardboard bottom of night light; slips moulded night light, in which a hole has been left during moulding, over wick.

wick preparer; attends wick making machine, which plate cotton threads loosely into wick; soaks wick in solution of borax and sulphate of ammonia and leaves it to dry; replaces empty cotton spools on wick-making machine with full ones.

wood stain maker; a varnish maker *q.v.* who makes a varnish, which dries dull or flat when applied, by adding tung oil during stirring and mixing of ingredients, according to formula.

writing fluid maker, see ink maker.

159—OTHER WORKERS.

alley girl (soap); inspects and passes (or rejects) tablets of soap as they leave stamping machine; places on one side those with defective imprints or coarse surface; *cf.* stamper (158).

barreller, oil barreller; in charge of burrelling of by-products or of finished oil in oil refinery; runs oil from storage tanks into barrel, closes barrel and seals it, stencils details of contents on outside.

barreller, fish oil, as for barreller.

bean man; a hand conveyor attendant *q.v.* who attends castor oil seed conveyor.

bleacher, beeswax; wax bleacher; (i) bleaches beeswax by exposing it to sunlight; (ii) melts beeswax and stirs it up, in a steam-jacketed vessel with mechanical stirring apparatus, with chromic acid or with hydrogen peroxide, or runs a stream of oxidized air through it; allows bleached wax to cool and solidify, runs off liquid and stirs up wax with hot water to remove last traces of chemicals, and allows it to cool and solidify.

blocker (candle); moulder (candle); runs purified molten paraffin wax into small moulds in candle moulding

machine and places over moulds metal covers which become attached to cooled wax blocks; removes solid blocks of paraffin wax from machine and places in power press which forces wax into containers and separates from metal covers.

blood collector; places tin pans below slaughtered animals to catch blood; empties pans into barrels which he carts when full to albumen maker (158) *q.v.* in blood shed.

blue mill labourer; weighs out correct proportions of ingredients of laundry blue according to formula; mixes them roughly by means of turning over with scoop, and feeds mixture to hopper of grading mill by means of scoop or shovel; removes powdered and mixed product.

bogey lad; wheels small trucks of material to man engaged in weighing out ingredients of compound (cattle) cake.

boogie man, see shower, cake.

boiler, beeswax; wax boiler; places beeswax (honeycomb) into steam-heated tanks, runs in water and turns a valve admitting steam to jacket of tank, thus melting beeswax; starts mechanical stirrer to agitate liquor to dissolve out any soluble impurities in water, allows liquids to settle and separate, then runs off wax straining it by running it out through fine muslin frame to extract solid impurities; runs it into moulds ready for beeswax bleacher *q.v.*

boiler, bone, see cleaner, bone.

boiler, grease; lubricating grease boiler; (i) iron and steel rolling, collects waste lubricating grease, cleans it in steam-jacketed pans, and casts it into blocks for greasing necks of rolls in rolling mill; (ii) *see* cleaner, bone.

boiler, hard soap; hard soap maker; a pan man (soap) *q.v.* who boils hard soaps, i.e., soaps made by saponification of oils with caustic soda.

boiler, pan, see pan man (soap).

boiler, scum; grease melter (olive, etc.); shovels meat scraps, etc., into steam-jacketed tank; admits water, turns on steam and skims scum of grease or fat from top of liquor for use in manufacture of glue.

boiler, size (carpet and rug); prepares mixed size for starching yarn, for carpet weaving, by boiling it in closed pans, temperature of which he regulates.

boiler, soap, see pan man (soap).

boiler, soft soap, see soft soap maker.

boiler, toilet soap, as for pan man (soap).

boiler, wax, see boiler, beeswax.

boiler, wax (electric cables); melts resin, pitch and wax in heated pots, to form a waxy liquid for use in annealing cables, and in tape and bending machines.

boiling hand, soap, see pan man (soap).

boiling house man (candles); tubs wax; shovels into steam heated tanks solid fatty acids; runs in oils, and adds colouring matter when candles are to be of coloured wax; tends valves of heating coils and controls automatic stirrers; runs mixed candle wax into small tanks or tubs ready for candle moulder (158) *q.v.*

bottler, ink; ink filler; fills bottles with ink, either by pouring from a can, or from a larger receptacle filled with a tap, or by means of a syphon filling machine; may also cork and seal bottles with sealing wax and seal; *cf.* ink bottle corks, ink bottle sealer.

boy labourer (soap); wheels small trucks of soap to drying room to be started; takes soap to presses to be made into tablets; helps in wrapping

and packing, keeps packers supplied with wrapping material, and does other light unskilled jobs.

brightener, oil brightener; operates valves, which admit oil to heated pan and superheated steam to heating coils; when water in oil is driven off and oil brightened, runs oil to storage tanks.

cake maker, lined, as for pressman (compound cake).

cakeite maker, see pressman (compound cake).

cakeite man, see kettle man.

cart grease maker, cart grease man; cart grease meller, coach grease meller, coach grease maker; a fat meller *q.v.* who makes cart grease by mixing together, in hot water or steam-jacketed pan, tallow, palm oil and plumbeago; maintains mechanical stirring until mixture is nearly cold.

caulker, boy caulker (soap); caulks soap frames, i.e., drives by means of hammer and chisel packing of hemp or oakum into joints between sides of soap frame in which soap, whilst still fluid, is run to cord, to prevent leakage.

caustic and spent lye hand (soap); soap lye meller; weighs out caustic soda and shovels it into tank, runs in definite volume of water and stirs to promote solution; runs out solution when required into tank containing melted fat or oils to produce saponification, *cf.* pan man (soap); also receives spent lye, i.e., lye after caustic chemical has been used up in saponification, which is run off from soap boiling pan by pan man (soap) *q.v.* and collects it in storage tanks and runs or pumps it off as required to plant for subsequent extraction of salt and glycerine.

cellar man, oil; in charge of oil storage tanks; operates valves and pumps for charging and discharging; keeps record of stock.

chamberman, see silo man.

charge-man, see potman.

checker (soap); checks and records quantities of raw materials received and of finished products made.

clarifier man, see settler, fat.

cleaner, bone, see scraper, bone.

cleaner, cotton seed, as for cleaner, seed.

cleanser, drum; cleans out drums in which oils and fats and other liquid chemicals are received in or despatched from soap, candle, oil, etc., works by inverting them over steam and water jets, which may be part of revolving table of washing machine; *cf.* washer, barrel.

cleanser, gum, see picker, gum.

cleanser, mill; a labourer who assists in cleaning seed crushing mill and machinery; also takes oil cake parings in truck from presser *q.v.* to cake grinder *q.v.* to be mixed up with fresh material and treated afresh for expression of oil.

cleanser, pan; press cleaner, see mucker-out.

cleanser, seed; attends a cleaning machine which sieves dirt and other impurities from seed, tips seed out of sacks into hopper of machine and keeps machine oiled; may also act as seed screener *q.v.*

cleanser, bone; bone boiler, grease boiler; boils bones, after they have been scraped by bone scraper *q.v.* in water to remove last traces of fat, skins off fat from top of liquor.

cleanser (soap); superimposes process of cleansing, i.e., runs off pure settled soap, from soap pan in which it is made, into strainer (washing machine) or into cooling frame; this usually forms part of work of pan man (soap) *q.v.*

coach grease maker, see cart grease maker.

compound cake maker, *see* pressman (compound cake).

conveyor attendant, band conveyor attendant (seed crushing); attends to conveyor on which he places sacks of seed or shovels loose seed for conveyance from place to place in seed crushing works; controls conveyor by means of lever, and oils it periodically.

conveyor attendant, salt; controls valve governing flow of brine into soap kettle or pan during process of graining, i.e., throwing soap out of solution into granular mass, and liberating glycerine; controls valve of salt or brine; runs off glycerine and shovels soap from tank.

cookar, *see* kettle man.

cookar lad; attends cooking machine in compound cake making; opens valve admitting steam to jacket of cooker, and tends bucket conveyor which fills cooker with crushed seed ready for expressing of oil after heating; rakes, or scoops out heated seeds and places them in press for next operation.

cookar (candle); opens valve admitting cold water to outer jacket of candle moulding machine to cool wax in moulds; usually done by moulder (158) g.v.

coolar (soap); (i) operates and controls cooling apparatus in which soap is cooled by circulation of cold water; regulates flow of water, and working of machine which forces out soap mechanically as it solidifies; (ii) *see* filler, frame.

copperside man, *see* pan man (soap).

cooker, ink bottle; cork filled bottles of ink, either by hand or machine.

cotton oil man; mounds cotton oil refiner (158) g.v. and performs general unskilled work in connection with manufacture of cotton seed oil.

cracker, bone, *see* crusher, bone.

cracker (line); shovels gums and resins into a breaking or grinding machine in preparation for making of lardene soap.

cracker (oil), *see* kibbler.

crusher, bone; bone crusher; shovels or puts bones into hopper of crushing machine or cracker, and controls machine, which crushes them up ready for extraction of fat in tallow factory; cf. bone crusher (meat) (149).

crusher (oil seed), crusher (seed crushing); angle roller man, grinder (seed crushing); roller man; feeds by shovelling seed into hopper, or by means of a conveyor, and tends machine, composed of heavy rollers, in which seeds or nuts are crushed to extract oil and for making cattle food; sometimes specially designated according to nature of seed crushed, e.g., cotton seed crusher, linseed crusher.

crutcher; attends to crutcher, a large steel pan in a steam jacket, and provided with a mechanical stirrer; runs in ingredients of soap, i.e., cleansed soap from soap pan (cf. cleanser, soap), scent, colouring material, carbolic acid, or filling material (where this is to be added), and tends stirring of mixture till which is homogeneous; leaves soap to stand for some hours (usually overnight) and runs it into soap frames to cool, cf. frame filler.

cuber, cuber man; attends hydraulic press, by which crushed and cooled oil seeds are compressed into cubes of cattle, for compound cake soap shute of hopper to charge press and controls hydraulic press to compress cake by means of levers; removes cake from press.

cutter (candle); cuts wicks, and removes candles, which have been forced up, after moulding, into clamps which he has previously placed on top of candle moulding machine; cuts, by hand, candles into lengths according to standard or specified measurements.

cutter, cotton; cuts with scissors and prepares lengths of cotton wick for candles of unusual dimensions, or for beeswax candles, which are not moulded.

cutter, court plaster; feeds sheets of court plaster between rollers of a cutting and/or perforating machine, to be cut up into small pieces.

cutter, fat; *see* *handman, tallow* cutter; shovels, etc., beef, mutton, or other animal fat, received from bone scraper g.v. into automatic cutting machine, to cut it up ready for operation of boiling out tallow.

cutter, gelatine; cuts out gelatine, while still in jelly state, from moulds in which it is poured by gelatine moulder g.v.; cuts large moulds into small blocks with knife by hand; sometimes also does work of gelatine slabber g.v.

cutter, glue, *see* cutter-out, glue.

cutter, isinglass; puts damped and rolled fish swimming bladders, cf. isinglass roller, in a machine which cuts them into narrow strips or shavings.

cutter, soap; (i) cuts large blocks of soap received from stock stripper g.v. by drawing a wire through it at previously marked intervals; (ii) cuts slabs produced by machines, cf. slabbing machine man, in similar way.

cutter, tallow, *see* cutter, fat.

cutter, wax taper; cuts wax tapers into lengths, with a gullotine knife, as they leave machine.

cutter-out, blocking; cuts solidified blocking to size and shape required, usually by machine, which both cuts and wraps up blocking.

cutter-out, glue; *glue* cutter; cuts out glue whilst in jelly state, by hand or machine, from moulds or troughs into which it is run from glue boiling vat; cuts glue, by hand operated wire frame, into blocks or slabs.

delinter (seed crushing); *linter*; attends and feeds machine which removes short fibres adhering to cotton seeds, after long fibres have been detached in ginning process; shovels seeds into machine, attaches rollers beneath delivery chute and trucks cleaned seeds to warehouse; removes fibre from machine.

deodoriser's assistant; assists deodoriser (158) g.v. tending tank in which expressed oil is deodorized by bubbling steam through it; controls steam, and oil inlet and outlet valves, under direction of deodoriser; cleanses out tanks between successive charges.

dextrina maker; attends revolving cylinders into which he charges material, usually potatoes, potato starch, wheat or maize, after dressing or sowing; closes cylinders and attends to furnaces which convert contents by calcination into dextrine; discharges cylinders at end of action.

digestor man; feeds digester with bones and fatty refuse and meat off-balls on cover, controls temperature of digester by means of steam valve, which causes fat to melt and flow out when drawn off; empties digester of residual oil, i.e. greaves, at end of operation.

dipper; dips compound cake, compressed crushed oil seeds, into water, to obtain shiny surface on cake, and places it in racks to dry.

draw-off; *moulder* (seed crushing); (i) *sees* filler (seed crushing); (ii) draws off ground material (oil cake) from chutes and fills into sacks, ready for despatch; ties sacks up and removes to store.

dresser, gum; empties from sacks broken glue into hopper feeding a stove; brushes glue against stove and hand brush, to dress or sift dirt from glue; cleans wire periodically.

dripping maker; (i) melts sweet, adds preservative and strains off product, into moulds; (ii) *draining* moulder, *dripping* refiner; tends steam-jacketed hand wheel in which used fat scraps are boiled in water, till fat rises as liquid to surface; skims off fat and pours into receptacles to solidify.

dryer, continuous (soap); operates and controls continuous soap drying apparatus, which receives fluid soap into a hopper from which it runs out in thin smooth sheet on rollers of revolving water-cooled cylinders where it solidifies, and from which it is detached by a fixed knife-edge, as cylinder revolves; soap drops off from cylinder in thin strips, passes through heated chambers on endless belt, and emerges, finally, dry; sometimes combines this with work of drying machine band g.v.

dryer, gelatine; *puller-on, spreader*; lays strips or slabs of gelatine on trays of nets, and places trays in a rack in a current of air, to dry gelatine; removes trays when gelatine is dry.

dryer, glue; (i) *glue* layer-out, *layer-out, putterer-on*; places slabs of glue, of consistency of jelly, to dry on nets in open-air, or on nets in frames, in a current of dry air, caused by electric fan in tunnel drying chamber; (ii) *seeds* and *feeds* machine, composed of heated rollers, over which glue is allowed to pass slowly and is thus dried; places glue on rollers; regulates gas burners heating rollers.

dryer, size, or for dryer, glue.

drying machine band (soap); operates a machine which sends a current of warm air into drying room to dry soap; sometimes combines this with work of continuous dryer g.v.

dry soap maker, *see* soap powder maker.

envelope maker, *see* wrapper man.

fat maker, *see* mallet, fat.

feader, feeder man (seed crushing); (i) weighs compound cake ingredients and shovels, pours, etc., down chute, supplying mixer (seed crushing) g.v. (ii) shovels seeds, kernels, etc., into crushing or other machine, when not done by mixer; (iii) in charge of conveyor apparatus, which conveys seeds to cleaning, crushing, or pressing machines; puts conveyor as required and may place sacks of seed on conveyor, or removes them.

feeder (soap), *see* pan man (soap).

filler, enamel paint; enamel paint packer; a paint packer g.v. who pours or runs enamel paint made by enamel mixer (152) g.v. into tube, drums, or kegs and closes same ready for despatch.

filler, frame; cooler (soap), frame man; runs warm liquid soap, after crushing, cf. crusher, into large rectangular boxes or frames on wheels, fitted with detachable sides and ends; leaves soap in frame for two or three days to cool and solidify; when soap is quite solid, passes frames to stock stripper g.v. to be taken to pieces.

filler, ink, *see* bottler, ink.

filler, oil, *see* packer, oil.

filler, paint, *see* packer paint.

filler (seed crushing, etc.); *draw-off, sealer*; fills drums or barrels with oil, molasses or hy-products, and seals barrels by driving in bung, and drums by means of screw cap.

filler, varnish, *see* putter-up, varnish.

filter man; operates pump valve to control flow of oil to oil filtering plant; removes and cleans sieves, by hand, when required.

food man (seed crushing), *see* valve man.

frame man, *see* filler, frame.

furniture polish maker; general term for any person engaged in making polishing wax or cream; processes similar to those in manufacture of boot polishes, and similar machinery used, e.g. weighing of components, mixing in steam-heated pans, and pouring into tins, bottles, jars or drums; includes mixer (178), filler (149) g.v.

gelatine maker; *gelatine melder*; shaggs cleaned and bleached bones or animal skins in water, in pans heated by steam coil, keeping temperature below 85° C.; when liquor is sufficiently strong, runs it off, bleaches it by opening valve to blow sulphur dioxide gas through it; hydrogen peroxide is used if gelatine is to be edible; runs liquor out on sheets of glass cooled with water, or into wooden troughs to solidify.

gold size maker; boils a mixture of various gums with turpentine in hooded pans, to produce a varnish and paint drier called gold size; weighs and shovels gum into pans; opening valve, runs in measured quantity of turpentine; turns on steam to heat pans; runs off boiling liquid to cool.

grease maker, see melter, fat.

grease maker, railway; *railway grease melder*; mixes tallow, mineral oil, and soda solution in a steam-jacketed pan, to make grease used for lubricating wheels of railway vehicles; runs mixture out into barrels for despatch.

grease maker (varnish); opening valves, runs into a mixing tank oil and milk of lime; starts up mechanical stirrer or stirs by hand until a "doughy" mass of grease forms; shovels grease from tank into drums or casks.

grease maker (wool combing); *see seak maker.*

grinder, grinder feeder; feeds material to hopper, or direct to grinding machine, to be ground to powder for further handling or sale as powder; tends machine generally; sometimes specifically designated according to name of material ground, e.g., *calcium grinder* (oil cake or compound cake), *dry soap grinder*, *gum grinder*, *soap powder grinder*, *stearic acid* (or *stearine*) grinder.

grinder, gelatine; shovels dried glue or gelatine into grinding mill; when sufficiently ground, feeds automatic lifting apparatus into play by means of lever; fixes empty sacks under chutes and removes full sacks to truck.

grinder (seed crushing); *see crusher (oil seed).*

gum chopper; breaks up gum in a small chopping machine, shovels gum into machine; effects sacks beneath machine delivery chute and trucks filled sacks to store.

gum maker, gum runner; makes gum by melting imported gums in covered gum pot, adding sufficient water to dissolve gum, and then pressure of liquid from gum cone stirs continuously during heating process; strains off clear gum from sediment, and fills barrels, jars, bottles, etc., with finished gum; cf. *gum runner (varnish)* (153).

hard soap maker, see boiler, hard soap.

hasherman, see cutter, fat.

heather man, caketee, see kettleman.

heathall maker; melts and mixes together mineral wax and lampblack in heated pans; runs mixture into moulds to cool.

lingglass maker; general term to cover all semiskilled workers in manufacture of linglasses, includes cutter, roller, etc.

kettleman; *caketee* *heather man*, *caketee man*, *coker*; attends steam-heated pans or kettles, in which cleaned and crushed seeds, in form of meal, are cooked ready for pressman (compound cake) g.v.; controls steam valves and charges pans.

kilbaker, kilhlberman; *cracker* (oil), *nutcracker*; attends and feeds machine in which he breaks up cake into modular pieces before grinding into meal; places cake in feed hopper; shovels broken cake from delivery hopper into sacks for despatch or into barrels which he trucks to machine run (seed crushing) g.v.

kitchen stuff maker, see melter, fat.
layer-out, glue layer-out, see dryer, glue.

layer-out (gelatine), see slabber, gelatine.

linter, see delinter (seed crushing).

linter lad; assists delinter g.v. generally.

machine attendant, machine hand (seed crushing); general term for any person minding and feeding any machine, but more especially used for attendant of maktee or melting machine, cf. *pressman* (compound cake).

machineman, barring (soap); places slab of soap on bar-cutting machine, and forces soap, by operating a lever, through frame of wire, to cut it into bars.

machineman, plodding; tends and operates plodding machine which he feeds with milled soap; machine forces soap by means of a spiral screw through perforated plate, causing soap to emerge as a number of threads of soap, which are then squeezed in machine into form of continuous bar. **machineman (seed crushing);** attends disintegrator, which grind up nodules of cake, after kibbling, into meal, prior to mixing ingredients for compound cake; shovels nodules into machine; engages driving pulley; opens trap door periodically to deliver meal into container beneath machine.

machineman, slabbing (soap); attends machine which forces solid block of soap on wheeled base, of stock stripper, through a frame of wire, which cut soap into slabs ready for barreling. **machineman g.v.;** pushes soap on to machine feed platform; removes cut slabs.

melter (seed crushing), see drawer-off.

mealman (cattle cake), see mill hand (cattle cake).

melter (candle); *melting house man* (candle); (i) melts crude paraffin wax in large tanks, by means of an open steam pipe, in readiness for reformer g.v. (ii) reformer, stearine (iii) re-former pressed cake of fatty acid and wax from pressman (candle) g.v., and melts and charges them ready for candle moulder (158) g.v. or for dipper g.v.

melter, cart grease, see cart grease maker.

melter, coach grease, see cart grease maker.

melter, dripping, see dripping maker.

melter, fat; (i) extracts fat from residue after animal skin, hair, hide, etc., (excluding bones) have been bled, and boiled for extraction of glue; runs in sulphuric and hydrochloric acids to break down insoluble lime soap and release fatty acids; (ii) *fat melder, fat purifier, grease maker, grease melter* (fat extraction), *grease refiner, kitchen stuff maker, kitchen stuff melter, kitchen stuff refiner, tallow melder, tallow refiner*; tends steam heated tank or digester in which he melts out fat from beef, mutton, etc., scraps and bones; tends mechanical stirring apparatus which ensures thorough heating of material, and runs off fat at intervals from top of liquor; extracts fat from tissue with sulphuric acid and steam in open pans; generally also refines fat by adding caustic soda, allowing it to settle and solidify and pouring off washing liquor; (iii) empties out *fat* or oils into tanks from barrels or drums in which they are received and sells them; cf. *melter, oil*.

melter, gelatine, see gelatine maker.

melter, grease (fat extraction), see melter, fat.

melter, grease (glue, size), see boiler, steam.

melter, kitchen stuff, see melter, fat.

melter, night light; attends copper vessel in which mixture of paraffin wax and stearine, used for making night lights, is kept hot and liquid for use of night light moulder (155) g.v. stoker fire, regulates gas burners or steam valve to control heating;

opening a valve replenishes vessel with mixed molten wax and stearine (fat) at intervals as required.

melter, oil; (i) melts oil in barrels or drums, by injecting steam or by putting it in heated chamber. (ii) collects solid residue containing fat, such as butcher's waste; spreads on heated plates and runs oil which exudes into tanks or other suitable vessels; (iii) heats solid oils in covered pans, usually by means of steam coil, which he regulates and runs off liquid oil into mixing tanks as required.

melter, railway grease, see grease maker, railway.

melter (soap), or for melter, oil.

melter, stearic acid; tends pan in which solid stearic acid, from which stearic acid has been pressed out from tallow, is melted by means of steam jacket or coil; operates valves controlling supply of steam to pan.

melter, stearine, melter (candle); takes animal and vegetable fats from casks in which they are received, empties casks either by inserting open steam pipe in bung hole, turning on steam, and so running melted fats into a tank or by shovelling fats from cask into tank; turns on steam to clarify them by removing fibrous matter, which settles out; runs off melted stearine through a filter to settling vat and from thence to cooling tank until it is ready to solidify.

melter, tallow, see melter, fat.

melting house man (candle), see melter (candle).

miller, oil; a *crusher* (oil seed) g.v. who crushes oil seeds or nut kernels to express oil contained therein.

miller (soap); millman (soap); (i) operates and controls a soap mill which grinds dried soap chips or shavings, into long transparent ribbons of soap, which may either be converted into flake soap ready for sale, or passed on to plodding machineman g.v. for conversion into solid cake. (ii) *grinder*; attends some times specifically designated, e.g. *dry soap miller, soap powder miller*.

mill hand (cattle cake); mealman (cattle cake); passes grain through mill, consisting either of grinding stones or steel rollers to crush it into meal; feeds mill with grain; adjusts stones or rollers according to required fineness of meal, and supervises working of machinery.

millhand hand (soap); a miller (soap) g.v. or labourer in soap mill assembling milled soap into cakes.

millman (soap), see miller (soap).

mixer (fat); shovels paraffin wax from casks, drums, etc., into steam-jacketed tank, turns-on steam and, opening valve, runs liquid wax to moulding machine; cf. *Mocker* (candle).

mixer (seed crushing); shovels crushed seeds and other ingredients of compound cake to mixing machine, engages driving pulley, and when ingredients are sufficiently mixed stops machine and shovels ingredients therefrom.

mould (candle), see blocker (candle).

moulder, cake moulder (compound cake); steam moulder; from steam kettle, heat of which he regulates, draws-off quantity of crushed and heated meal into a tray; fills therefrom a mould into a tray; operates a lever, he superimposes upon a cloth wrapper; withdraws mould and wraps meal in cloth; puts aside wrapped meal for pressman (compound cake) g.v.

moulder, gelatine; runs clarified pure gelatine, while hot, out of purifying tanks into wooden troughs or moulds, regulates steam valve of tank.

moulder, glue; *glue runner-off, runner-off* (glue, size); shovels dried glue into steam-jacketed pan; turns-on steam and runs melted glue, whilst still warm, into wooden troughs or moulds.

moulder, steam, *see* moulder (compound cake).

mountant maker, *see* paste maker.

mucker-on, *see* cleaner, *see* washer.
pans cleaner, raker-on; cleans up pans, tanks, presses, wells at foot of presses, conveyors, kibbling machines, etc., cleans floors, etc., in a seed crushing or oil cake mill.

puttermen, *see* kibbler.

oil house man (seed crushing); a general labourer in extractor house in which oil is extracted from crushed seeds by chemical solvent, *cf.* oil extractor (seed crushing) (158).

oil mill nipper; carries oil cake or compound cake away from press; or forches and carries for foreman.

packer, enamel paint, *see* filler, enamel paint.

packer, oil (vegetable oil refining); *oil filler*; draws off oil into drums or barrels from storage tanks; closes and seals containers ready for despatch, with cork screw cap, and wire.

packer, paint; paint filler, fills, by drawing from storage tank, drums, kegs, and tins with prepared paints, *i.e.* pigments that have been partly or fully made up with oils and turpentine ready for use; weighs them, makes up deficiency by pouring from small vessel and curbs, by hand.

packer, varnish, *see* putter-on, varnish.

pan man (seed crushing), *see* potman, pan man (soap).

panner (soap), *see* boiler, pansman, soap boiler, soap boiling; runs oils and fats into a large pan, heated by steam coils which he controls; runs in caustic alkali, and boils mixture until saponification is well under way; runs in brine or shreds in salt, boils again and allows to stand till layer of soap paste forms at top, and one of spent lye, *i.e.* liquor containing weak caustic alkali, brine, and glycerol, at bottom; runs off spent lye to be sent to glycerine extraction plant; runs in more caustic alkali, boils again to ensure complete saponification, and finally runs off, by means of pipe on swivel joint, layer of soap into crutcher (*cf.* crutcher); may also perform duties of soap waste recycler, *q.v.*

pansider, *see* pan man (soap).

parser, cake parser; cake trimmer, scroffler; feeds and operates machine which automatically cuts off rough edges of oil cake formed during oil expressions, to be returned to pressing machine for further expressing of oil; places trimmed cakes in iron frame to be wheeled to cake weigher *q.v.*

parser (soap); feeds bars of dried soap to rotary soap-chipping machine, which cuts them into small thin chips. soap shaker; catches chips as they fall from machine into a small box ready for packing in cartons, etc.

paste maker; mountant maker, mixes up powdered starch and water, or flour and water and a preservative, into an adhesive semi-solid mass, usually by warming in steam jacketed tanks; pours fluid off while still warm into containers in which it is to be sold.

perfumer (soap); adds essential oils or other perfuming material to soap during process of manufacture, usually during crutching operation, *cf.* crutcher.

picker, gum; gum cleaner, gum sorter; sorts out various qualities of gums as imported from Egypt, India, etc., and removes dirt therefrom, process mainly carried on abroad.

pile (soap); piles bars of warm, newly-made soap loosely across each other, to allow free circulation of air in pile, in heated drying rooms, through which an air current is driven by an electric fan.

polish maker; general term for any worker engaged in making, mixing, or polishing up all kinds; includes mixer (155), filler (149) *q.v.*

potman; skagrooman, pan man (seed crushing), assists oil extractor (158) *q.v.* by shovelling seeds into or out of extraction vessels or pans and under his direction opens valve, *e.g.* to run in spirit solvent.

press attendant; shovels moist colour sludge into frames; puts frames in presses and operates valves to control presses; removes frames, screws them and removes colour sludge; washes frames with brush or hose pipe.

presser, cake; (i) *see* pressman (seed crushing); (ii) *see* pressman (compound cake).

presser, metal polish; feeds and attends a press in which he presses mixed ingredients of solid metal polish into blocks ready for sale.

presser (seed crushing), *see* pressman (seed crushing); sometimes specifically designated according to kind of seed pressed or product made, *e.g.* cotton seed presser, linseed presser, oil presser, seed presser, etc.

presser, shoddy (oil extraction); operates valves of filter press through which shoddy or dirty oil is forced to free it from carbon and foreign matter; changes filter gauzes periodically.

presser, sperm; places lumps of refined sperm into a steam-heated press, which shapes it into blocks ready for export; controls press by levers; removes blocks when pressed.

pressman, algic, *see* pressman (seed crushing).

pressman, cake; a pressman (seed crushing) *q.v.* who operates cage press, usually four, in which he crushes cakes of seeds to extract oil in cold-drawn process, in which seeds are pressed, without any cooking, by kettleman *q.v.*; fills cages with seeds, inserts in press and proceeds as for pressman (seed crushing), *cf.* crutcher (seed crushing).

pressman (compound cake); cake presser, cakelette maker, compound cake maker; (i) places mounds of meal, received from moulder on wooden slide, in spaces in hydraulic press; presses, cooks and crushed seeds (or meal) into cake form, operates valve applying pressure; removes cakes by hand when pressed and passes to stripper; (ii) shovels meal into a roller machine which presses meal into cakes or nuts, small pieces of compound cake which are ready for use without breaking; watches automatic ejection of small cakes for smooth working; controls pressure by lever or valve.

pressman (seed crushing); (i) charges hydraulic press with crushed kernels, nuts, etc., from hopper, and then operates levers to express oil into storage tank; removes cake of seeds from press ready to be taken to parser *q.v.*; (ii) cake presser, *presser* (*cf.* crutcher, *q.v.*); (iii) *see* pressman; places mounds of crushed and steamed oil seed, which have been wrapped in press cloths by wrapper man *q.v.* between plates of a heavy hydraulic press; operates press thus squeezing out oil; also attends kettle when there is no separate tea man.

pressman, stearine; wax pressman (candles); stearine recycler; places crystalline stearine or crude paraffin wax into press cloths or canvas bags, and places in hydraulic or filter press, moves lever which applies pressure to bag and contents the bag squeezing out all non-solid oils, *i.e.* stearine attaching to crystals or lubricant grease; releases pressure, takes out bags and empties pure stearine from bags or yellow cakes of wax from press cloths into trucks.

puller-on, *see* dryer, gelatine.

puller-out, are removed pressed oil cakes from press, and takes them to paring machine; *cf.* parer.

purifier (candles), *see* refiner (candles).

purifier, fat, *see* melter, fat.

purifier, fat (oil); oil purifier (soap); fat *or* oil refiner; refines fats or oils as received in factory, into which and purifies them by boiling them

with dilute sulphuric acid in lead-lined or wooden tank heated by a steam coil; draws off purified fats when they have settled into anathema tank for saponification.

pusher-in; shorer-on; puts wrapped, crushed, and cooked seed into press for pressman (compound cake) *q.v.*; sometimes also acts as wrapper man *q.v.*

putter-on, *see* dryer, glue.

putter-up, varnish; varnish filler, varnish pocker; fills and labels cans, jars, bottles, kegs, barrels, etc., with varnish from a tank in which it has been stored for at least a year to mature.

raker-out; (i) *see* mucker-on; (ii) (seed crushing) rakes out material left by strikers in extraction vessel after steaming, *cf.* oil extractor (158).

recooper, soap waste; (i) runs off from soap boiling tank, *q.v.*, *i.e.*, a layer of liquid which flows from under soap layer, and which contains an inferior soap; mixes this liquor with fat and oil, and boils up afresh with soda lye to make pure soap; (ii) bleaches nigre by adding sodium chlorate, sodium hypochlorite, hydrogen peroxide, and then works it up into a coarse cheap soap; usually done by pan man (soap) *q.v.*

recooper, stearine (candle), *see* pressman, stearine.

refiner, beeswax; wax refiner; strains melted beeswax through a fabric to extract impurities; usually combines this with work of beeswax bleacher *q.v.*

refiner (candles); purifier (candles), refines *beeswax*; melts, reduces paraffin wax used in making candles, night lights, and tapers, by melting it in large tanks heated by steam coil; then admits steam which he bubbles through the wax, pumps or runs molten wax and water into settling tanks, runs off water and draws wax off into trays placed in ovens where oil is sweated away, by passing in open steam; further purifies wax by melting it in large pans provided with agitators, which stir it up with charcoal to remove all traces of colour; allows wax to settle and runs it off into moulds to solidify.

refiner, dripping, *see* dripping maker.

refiner, fat or oil, *see* purifier, fat (soap).

refiner, grease; (i) *see* melter, fat; (ii) passes cat, *etc.*, grease whilst still liquid and hot through steam jacketed felt filter to extract lumps and impurities; runs grease then into casks for despatch; sometimes specifically designated, *e.g.* cart grease refiner, coach grease refiner, railway grease refiner.

refiner, kitchen stuff, *see* melter, fat.

refiner, stearine; places blocks of stearine, received from stearine pressman *q.v.* in tank, runs in water and heats whole by opening valve allowing steam to pass through the water; agitates liquor mechanically, allows stearine and water to settle out, and runs off purified stearine.

refiner, tallow, *see* melter, fat.

refiner, wax; (i) *see* refiner, beeswax; (ii) (candles) collects wax left in candle moulding house, renders after candle making; puts wax to be collected in wooden tub, melts it by means of admitting steam to coil in tub, adds acid and stirs up liquor by hand; allows to settle, runs off acid, washes wax with water and allows to cool and solidify; adds clean wax to that in tanks of candle moulding house; *cf.* wax refiner (145).

refiner's assistant, refiner's labourer (vegetable oils); assists oil refiner (158) *q.v.* on process work generally, such as oil filtering, neutralising, boiling with purifying agents, settling of liquids and removal of deposits of different specific gravities separately, *etc.*

refinery floor man, oil; sweeps up and keeps clean floors of oil refinery.

refining, house man, *see* refiner (candles).

refrigerating plant attendant; attends to refrigerating plant, in which heavy oil or suit paraffin residue from wax refining process, and useless for candle making, is converted into blue oil, to be mixed with lubricant oils and greases, contains tanks of heavy oil and drag-in of blue oil and unconverted this oil by means of valves.

roller, *slagless*; passes damped fish rounds, or air blades into a rolling machine, which rolls them out flat, ready for impaling cutter *q.v.*

roller lad; assists crusher (oil seed) *q.v.*

rollerman, angle rollerman, *see* crusher (seed crushing).

rubber; treats edges of compound cake after pressing, as for parer, *cake*.

runner-off (glue, soap), *see* moulder, glue.

sampler, tallow; takes samples of tallow from refineries, etc., for test and examination; usually employed by a broker.

scaldman (soap); weighs raw materials for use in soap, etc., manufacture.

scraper, bone (tallow extraction); bone cleaver; scrapes or cuts off from bones, using special hand tool, fat and meat to be used for tallow extractions.

scratcher, *see* parer.

screener, seed; screenerman; feeds, by shovelling or tipping seed into hopper or by means of a conveyor, and attends to screens which sort seeds from any impurities, such as other types of seed, dirt, etc.; operates screens starting and stopping screen as required, *cf.* cleaner, *seed*.

seak (or seack) breaker; receives hard cakes of wool grease from which oil has been squeezed out by seak (or seack) maker *q.v.* and breaks them up for soap garden mixture, or, for use as fuel, by feeding into the hopper of cracking or breaking machine.

seak (or seack) maker (woollen mills); grease maker (wool combing); (i) runs sulphuric acid into soapy liquor (containing wool grease) that has been used to wash out fats from raw wool; mixes liquid by mechanical stirring, allows fats to settle out from liquor, which he runs off; puts fat, from which all liquor has been drained, into canvas bags, and expresses oil from bags in steam-jacketed hydraulic press; collects oil in barrels, and removes hard cake from bag ready for seak breaker *q.v.*; (ii) purifies effluent from silk-cleaning cloth laundry, where silk-cleaning cloths for machinery are washed, by running it into tank and treating it as in (i) above.

sealer, ink bottle; seals filled bottles of ink with sealing wax or with paper seals; sometimes also improves firm's name, etc., on sealing wax, using hand stamp.

sealing wax maker; tends to pot in which he melts together and mixes by stirring measured quantities of shellac, resin, turpentine, and coloring matter (vermillion, lamp-black, red ochre, ultramarine, etc.), and tests product into sticks; warms up sticks of sealing wax to fire surface and so gives wax polished appearance.

seed man (seed crushing), *see* sile man.

separator, metal ball oil (engineering works); runs used oil from drain into steam-jacketed pans, where it is warmed; opens valve or drives pump pushing oil through filter press, to storage tanks for re-use.

settler, fat; (chaff) men; runs off melted fat from digesters into tanks, and settles or clarifies it by shovelling in salt; drains off fat, as it separates, into containers, where it is left for about three days before being dealt with by stearine pressman *q.v.*

shower-in (seed crushing); (i) shovels seeds or nuts into hoppers of machines for cleaning, crushing, steaming, or

pressing, where automatic feed is not installed; (ii) *see* push-in.

siever (paint); shovels or tips powdered colour into hopper of sifting (or sieving) machine, which eliminates insufficiently ground particles; removes powdered colours from machine after they have been sifted; returns large particles to paint millman (152) *q.v.* for regrinding.

sile man; chamber man, seed man, seed trimmer, trimmer (seed crushing); receives seed from wharf; attends elevators, conveyors and screens; performs general work in elevator, shovels seed in silos, etc., so that bucket conveyors are able to pick it up.

size maker (carpet and rug); prepares size for boiling by combining starch or flour with a softening substance and mixing these in water.

slabber, gelatine; layer-out (gelatine); cuts blocks of gelatine, as received from gelatine cutter *q.v.*, into slabs; places gelatine in a frame and cuts by pulling two-handed knife, attached to frame; work sometimes done by gelatine cutter *q.v.*

soap leach maker; *see* caustic and spent leach maker.

soap powder maker; dry soap maker, washing powder maker; general term for any man employed in manufacture of soap powder, including pail man, crutcher and soap powder grinder *q.v.*

soft soap maker; soft soap boiler; a good mack *q.v.*, who mixes and boils fats and alkalis; caustic potash must be used and not caustic soda, to produce a soap which at ordinary temperatures is a soft paste.

sorter, bone; sorts bones, before they are boiled, setting aside those which are liable for brush making, cutlery handles, etc., and placing rest into a bin for bone crusher *q.v.*; *cf.* sorter (manure works) (149).

sorter, gelatine; sorts out into categories, according to quality gelatine required, bones, skins and scraps of hides to be boiled together to make gelatine.

sorter, gum, *see* picker, gum.

splitter, soap (oil refining); opening a valve, adds acid to soap emulsion in a soap collecting tank, starts up mechanical stirrer and turns on steam to heat mixture; runs off liquid to settling vats, causing fatty acids to separate out; runs off separating acid and scoops fatty acid from tank.

spreader, *see* dryer, gelatine.

spreader (candles); spreads candles received from stringer *q.v.*, suspended by their wicks, along rods for cooling and hardening and places in cold air drying chamber.

stamper, sealing wax; presses a steel die into a stick of sealing wax, which has been warmed up to acquire polish, leaving an impression of manufacturer's name, etc., thereon.

stancher, glue; seals bung holes of tubs or casks, used for holding glue, seals tubs in large vat with hot water, removes to drain vat, and scrapes up glue drained therefrom for re-use.

stearic acid maker, stearina maker (candle); general terms for any man engaged in any process necessary for production, refining, and solidifying of stearine or stearic acid, including acidifier (153), autoclave man (155), stearic acid meller, stearine pressman, stearine roller, etc., *q.v.*

storage tank man; watches oil tanks to see that conveyor pipes thereto are working properly.

stovary; attends stove or drying chamber in which surface of soap is dried by a current of warm air, which is sent from drying room frames received from strip stripper *q.v.*, tends fan which blows dry warm air into chutcher or exhausts damp air.

stover, calke, logic man; converts oil cake or compound cake to warehouse on a truck and stacks it there.

stringer; strings together, by their wicks, dip candles, candles of beeswax, or of unusual dimensions, for spreader (candles) *q.v.*

stripper (candles); removes cakes of distilled fatty acids from canvas bags in which they have been pressed by stearine pressman *q.v.*; shakes cakes into trucks ready for transport to vat in which it is to be melted and mixed with wax.

stripper, frame, *see* stripper, stock.

stripper (seed crushing); takes oil cake out of press (oil crusher or wringer), after oil has been expressed by pressman (seed crushing) *q.v.*; operation frequently performed by puller-out or by parer *q.v.*

stripper, soap frame, *see* stripper, stock.

stripper, stock; frame stripper, soap frame stripper; removes, by unscrewing fastenings, sides and ends of frame, which has been filled with liquid soap by frame filler *q.v.*, and allows it to cool and solidify, thus leaving a solid block of soap on a wheeled base.

takar-off; secures and opens, respectively, before and after compound cake, by coupling, sides of steam-jacketed cookers, by screwing and unscrewing.

tank man; attends conveyors and storage tanks in compound cake works; empties tanks, etc., of acids into tanks or other containers; opens valve to pump oil to automatic oil filters from tank containing expressed oil from presses.

taper girl (wax matches); attends machine in which threads are passed through steam-heated tanks of wax and gum, and through steel dies to remove excess or uneven deposition of wax; machine then passes coated threads slowly backwards and forwards through tank of wax over large revolving drums, and taper girl lowers temperature of tank of wax each time, until enough wax has adhered to threads; replenishes bath of wax at intervals as required.

taper maker (candles), *as for* taper girl (wax matches).

teaser assistant; assists teaser attendant *q.v.* and cleans up teasing machine room.

teaser attendant; feeds teasing machines, which tear up old press bags, used in seed crushing, to make flock for sale to mungo merchants; starts or stops machines by engaging pulley lever; removes flock from machine by hand.

toller, soap maker; a miller (soap) *q.v.*, who makes soap mass.

trimmer, cake, *see* parer.

trimmer (seed crushing), seed trimmer; (i) shovels seeds or nuts into machines for cleaning, crushing, steaming, or pressing where automatic feed is not installed; (ii) shovels seeds so that buckets of bucket conveyor can pick them up; (iii) *see* sile man.

trimmer (soap); using special hand tool, removes any excess of soap from tablets of soap, etc., after they have been stamped (149) *q.v.* and, using greased pad, polishes tablets if necessary, by hand.

truckman, blue; moves trucks of materials from place to place as required in plant where laundry blue is made.

tub man (candles), *see* boiling houseman (candles).

valve man; food man (*seed crushing*), assists oil extractor (153) *q.v.* attending to valves.

water seal maker; shovels powdered gelatine into a steam-jacketed pan, runs in water and turns on steam; adds glycerine, by hand, and stirs mixture with a paddle; when heat reduces liquid to pulp, runs or scoops it into glass moulds; starts up electric fan to dry mixture, etc., when dried, from moulds and feeds to machine which cuts it into wafers.

washer, barrel, washers; attends machine in which barrels are washed; places barrel over steam and water jets on revolving table of washing machine; removes washed barrels.

washer, glass; dips slabs of dried glass in water to polish surface.

washer, ink can; washes out mixing cans in which solid ink is mixed with water, or filter cans from which filter (ink) g. v. fills bottles, jars of ink.

washer man; assists gelatine bleeder (158) g. v., by washing scraps of leather, skin, hides, etc., after liming and acidifying, to remove traces of acid, by stirring them up in water.

washer, oil washer; operates valves running oil into tank, admitting acid solution under direction of chemist to wash out impurities, and running oil to oil brightening plant.

washer, pan; oil pan washer; washes out pans in oil house by injecting over steam and water jets; cf. sucker-out.

washer (size); tends boiling tails in which dressings from lannery are boiled and washed.

washing powder maker; see soap powder maker.

wax taper maker, *as for* taper girl (wax matches).

weigher, cake; (i) weighs oil cake in sack frames as received from refinery g. v. and records in weigh book prior to removal to warehouse; (ii) weighs and records quantities of oil cake leaving warehouse for despatch.

wheeler (vegetable oils); wheels oil cake into warehouse.

wrapper man (vegetable oils); re-wraps maker; wraps press cloths or wrappers round chimes of scrubbed and steamed seeds before it is placed in hydraulic press.

ORDER VII.—METAL WORKERS (NOT ELECTRO PLATE OR PRECIOUS METALS).

Sub-Order 1.—Employers, Managers, Foremen.

104-169.—FOREMEN AND OVER-LOOKERS.

contractor; takes contract from employers for certain work e.g. removing scrap iron and other metal from trucks to steel furnaces, so much as ten; engages and pays men engaged on job under him.

contractor, gentry; contracts with firm for mending ore, etc., into roasting kilns at blast furnace; is paid at so much a ton and himself supervises and pays gentrymen (376) g. v.

fat overlooker (card clothing); a foreman in charge of fat cleaners (235) g. v.; overlooks work and rejects any faulty dials; examines good working of machines and makes adjustments, if necessary.

gaffer; slang term for foreman in steel works.

hillman (shipbuilding); see iron checker.

hoistman (blast furnace); in modern works where most of the operations are mechanical, controls from a small room by means of various electric levers and switches, such operation as charging furnace, tipping bell dipping rod; works by scrutiny of a working model and alarm of the furnace and sees progress of charging etc., from observation of electric lights and signs.

iron checker (shipbuilding); hillman; foreman of iron stores (270) g. v.; records and checks incoming and outgoing steel material, coal, etc.; intends painting in racks and issues of plates, angles, bars, etc.; cf. iron stockkeeper (340).

loom supervisor; superintends erection of looms in weaving mills, travels from place to place as required for setting-up of loom, sees that necessary adjustments are made by

loom mender (210) g. v., and hands over loom in working order.

mill superintendent (advanced sheet, tin plate), see roll turner.

pipe major (foundry); a foreman supervising work of moulders (189), casters (183), and pipe pit labourers (183) g. v. in pipe foundry.

plumbers' foreman; superintends work of plumbers (202) g. v. on a contract; usually himself a working plumber; may travel from job to job supervising work, e.g. laying of lead roof, run and fall of pipes, jointing, etc.; generally works in conjunction with general foreman of job regarding cutting away or making good brick-work or woodwork to follow a through of pipes; usually engages and discharges plumbers and renders wage sheets and time records to office.

rate fixer; fixes piece rate or time limit for a certain piece of work in an engineering shop, on basis of practical experience in many operations (usually repetition work); may himself perform operations or may watch and time an average worker, usually done by foreman.

roll turner; (i) (iron and steel roll) turns rolls, or is responsible for turning, facing and setting of rolls, on a lathe, when surface of rolls has become uneven through much use; is responsible for working and condition of rolls, and usually controls work of hot and cold rolling department; superintends work of roll rollers (200) g. v. where employed; (ii) (galvanized sheet and tinplate trades) mill superintendent; turning duties as worker (i); does not, however, control both hot and cold rolling departments. (hot rolling) also works out specifications for different sizes and weights of sheets, and determines margin to be allowed in size and weight of bar for construction of sheets of given size (cold rolling) does not work out specifications; is usually known as cold rolls foreman.

testing officer (waterworks); superintends work of testers (378) g. v. who examine taps, castings, etc., visually, by weight in balance, by screwing on hydraulic machine which registers water pressure by means of dial; records results of tests.

Sub-Order 2.—Furnacemen (Not Foundry) and Puddlers

170.—CONVERTERS.

blower; Bessemer converter man, converter, converter man, steel converter; in charge of process of conversion of iron into steel in Bessemer converter and directs work of men engaged thereon, including puddlerman (173), bulleman (279), pitman (278), tapper (278), roasterman (278), ladle liner (279), slopperman (279) g. v.; gives instructions to workers and watches all operations, in which charge of molten pig-iron (usually 10-30 tons) is run into tilted converter, valve admitting high pressure air blast to tuyeres passing through bottom of converter, is opened, and levers controlled by which converter is hydraulically or electrically brought into upright position; watches flames issuing from mouth of converter until their colour shows that all carbon has been burnt up; gives instructions as to amount of molten spiegeleisen to be run into ladle and causes converter to be tapped and contents run into ladle; in event of temperature of charge falling too low, causes steel to be admitted with air blast; instructs labourer to add steel scrap to cool charge when too hot.

converter, converter man, Bessemer converter man; see blower.

converter man (copper); Mowble man; a blower g. v. who is in charge of and often himself manipulates

lovers of a Bessemer converter for oxidizing and removing impurities in copper matte; when all impurities except sulphur are burnt away or contained in slag, tilts converter and runs off slag into pots; continues blow, keeping surface of copper covered with coke, which is fed in from hoppers to prevent oxidation; still smelter is burnt away; tilts converter and pours copper into ladle for casting into ingots; judges progress of operations by watching colour of flames at top of converter.

Mowble man, see converter man (copper).

steel converter, see blower.

171.—SKILLED FURNACEMEN (INCLUDING KEEPERS AND MELTERS).

air furnaceman; a furnaceman g. v. who attends to and controls reverberatory furnace, in which charge is heated by means of gas from blast at side of hearth and directed so as to play on surface of charge on furnace hearth; charges, by hand or machine, material on to hearth and removes it when action is complete, either by means of ingot or by running it off as molten metal; as a rule no blast is employed.

alloy furnaceman, see distiller (lead).

annealing furnaceman; a furnaceman g. v. who charges, by hand, tong or crane according to nature of material, iron or steel bar, rod, or plate on to hearth of furnace; superintends firing of furnace and allows charge, when heated to fixed temperature, to cool slowly by regulating fire.

anode furnaceman (copper); a furnaceman g. v. who charges purified copper on to hearth of reverberatory furnace, stirs molten copper and causes slag formed by oxidation of impurities; shows it to surface of copper, charcoal or anthracite to prevent oxidation of copper and pushes pole of "green" wood into metal to reduce any partly oxidized copper; extracts samples at intervals, with hand ladle, to test state of purity; when action complete, runs molten copper into ladle for casting into copper anodes in final electrolytic purification of metal.

antimony furnaceman, antimony re-finer; charges crucibles with crushed stibnite and crushed or fused iron scrap and salt and heats in reverberatory furnace; pours crucible contents into a mould and knocks off slag when cold; recharges crucibles with metal (after crushing) and heats with stibnite and antimony flux to refine it; pours into ingot moulds.

arsenic burner, arsenic calciner, arsenic refiner; arsenic crucible, arsenic roaster; chokes or tips crushed arsenical pyrites on hearth of reverberatory, revolving, or muffle furnace; feeds furnace fires to produce white arsenic as vapor which passes over and is condensed on cool sides of large brick-chamber.

arsenic furnaceman; general term for any worker employed at or about arsenic calciners or refining furnaces including arsenic burner, arsenic refiner g. v.

arsenic re-refiner; shows powdered mixture of arsenic and charcoal into earthenware retorts in a furnace setting; attends to firing of furnace and thus drives over pure arsenic into receiver; at end of action, detaches sublimed arsenic from sides of receiver.

arsenic roaster, see arsenic burner.

arsenic smelter, arsenic smelterman; shows crushed arsenical ores into freelay roaster set in a furnace, and tends fire; detaches, by hand, with scraper, arsenic which has sublimed into freelay receivers, ready for refining.

assistant furnace keeper, assistant keeper; under keeper (*furnace*); assists furnace keeper *q.v.* and takes his place when he is away; sometimes done by first hand slogger (278) *q.v.*

azle furnaceman, a bloom heater *q.v.* who sometimes also assists azle forger in heavy work.

bismuth maker, bismuth smelter; shovels crushed bismuth ore into iron retorts set on an incline in a furnace, and tends to fire which heat retorts carefully watches pyrometer to control temperature; takes bismuth, which runs down retorts and out at end into iron basins, into iron moulds to form ingots.

blast furnace tender, see furnace keeper (blast furnace).

bloom heater; sets blooms, *i.e.* bars power-hammered from ingots of iron and steel, on hearth of furnace by means of overhead cranes and tongs; attends to furnace fires which heat blooms, and, when at correct temperature for next process, *i.e.* rolling, forging, etc., removes them in some way; judges temperature of bloom by its appearance or colour; cf. furnaceman.

bronze crucible man, bronze furnaceman, bronze smelter; a furnaceman *q.v.* engaged in smelting copper and tin ores, combined in fixed proportions to make bronze.

burner, see roaster.

burner (tinsplate); a heater *q.v.* who heats and reheats sheets of iron and steel in rolling of tin plate, etc.

bustler; a furnaceman *q.v.* who bundles up (takes together) in a furnace, iron turnings, punchings, etc., and draws out bundles at welding heat ready for blooming under steam hammer.

calcinar, furnace calciner, ore calcinar; calcines attendant, calcines watcher; tends in a calcining furnace; stokes furnace fire, charges furnace with ore and in some cases coke, *e.g.* spelter, by tipping or shovelling; takes over by hand or mechanically and discharges roasted or calcined ore by raking out into barrows; sometimes specifically designated, *e.g.* arsenic calcinar, blende calcinar, nickel calcinar, spelter calcinar, tin calcinar; cf. roaster, ore furnaceman.

calcinar, calcinar man (copper extraction); loader; a furnaceman *q.v.* who feeds, stokes and attends furnaces which roast or calcine copper ore to eliminate portion of sulphur or roast granulated oxide metal (or matte) to oxidize sulphide of iron contained therein.

calcinar (scrap); scrapperson, scrap smelter, scrap refiner; a tin furnace smelter *q.v.* who calcines scrapings from tinning pots (tinsplate making) in a small reverberatory furnace.

calcinar attendant, calcinar watcher, see calcinar.

charger; a heater *q.v.* who charges furnace with billets of gas metal into position whilst suspended by overhead crane and tends to furnace fire and air blast, which heats billet up to forging or rolling temperature; judges by colour of billet when to withdraw it from furnace by means of tongs and attaches it to crane by chains and grips to be taken to roller or steam hammer for next process.

charger (tubes); with tongs places in oil or gas furnace small pieces of flat iron for heating in process of socket making by machinery, withdraws them when at proper heat and when required by machinist.

clock operator (electric furnace); watches "clock" indicating temperature of electric furnace and maintains furnace at desired temperature.

coach spring furnaceman; an annealing furnaceman or heater *q.v.* who anneals and tempers leaves of coach spring.

cobalt furnaceman, cobalt matte calciner; (1) an ore furnaceman *q.v.* who heats a paste of cobalt oxide and carbon, pressed into cubes and placed by hand on hearth of muffle furnace; takes out metal with long rake or rabble; (2) general term for men employed in roasting or calcining cobalt ores or oxide in a furnace.

crucible man (not brass foundry); crucible steel maker; smelter (*first hand*); makes special "crucible" steel by shovelling weighed quantities of broken blast steel into special crucible crucibles, and adds chemically determined weights of vanadium, tungsten, chromium, or other metal; places crucibles, by means of tongs, into muffle or other furnace; when steel is made, removes crucible from furnace and sends it to teemer (278) *q.v.* for pouring into moulds.

cupel furnaceman, see refiner (lead).

cupola furnaceman (copper smelting); cupola man, cupola tender, smelter, smelting furnaceman; is in charge of a blast furnace or cupola, and directs men employed in loading, feeding furnace, removing slag pots, etc.; supervises operations of charging furnace from top with copper ore, coke and flux (flux, etc.), and controls valves to regulate blast of air delivered under pressure; advises men in position of furnace; directs breaking of clay hole with iron bar and "taps" off copper at intervals; slag is removed as it runs out into pot through slag hole; he potters; controls cocks to regulate flow of water in jacket round furnace.

cupola man, cupola tender, see cupola furnaceman.

cupola tender (Bessemer steel); as for furnace keeper except that molten metal is run into ladle for pouring into Bessemer converter (see run direct into converter) in manufacture of Bessemer steel.

distiller (lead); alloy furnaceman; shovels triple alloy of lead, zinc and silver into stout graphite retort, heats it to about 1000° C., when zinc distils over and is condensed in condenser attached to retort; when zinc has distilled over, removes condenser and heel ladles out residue of lead and silver alloy, and casts it into bars; taps molten zinc from condenser by breaking clay hole with iron bar.

distiller (zinc), see smelter (zinc).

first hand at furnace, see leading furnaceman.

forehand (copper); general term applied to men in charge of any process or apparatus in copper extraction work; usually *q.v.* as prefix, *e.g.* forehand furnaceman.

forge furnaceman; attends to and feeds furnace in forge department; places by means of tongs, etc., bar, rod or billet of metal in furnace, and withdraws it when sufficiently hot, using tongs, and takes it to forge; if heavy, moves metal by means of overhead crane, using tongs to guide it; generally assists forger (190) *q.v.*

forgerman's heater; a forge furnaceman *q.v.* who heats planks for scythe forges (190) *q.v.* and assists him generally.

founder; S. Wales; see furnace keeper (blast furnace).

frame fireman; plate fireman; a furnaceman *q.v.* who attends to furnaces used by frame turners (222), plate benders (190), etc., *q.v.* in shipyard.

fume roaster (lead smelting); smelter, fume roaster (lead smelting); a furnaceman *q.v.* who attends a slagging or sintering furnace in which he roasts fine dust or fume, collected in furnace flues, to free it from sulphur

preparatory to treatment in blast furnace, charges furnace at top from a hopper and discharges into pot through tap hole by breaking clay with iron rod.

furnace first hand (zinc extraction); furnace man who is in charge of a furnace, into which retorts are shovels a mixture of zinc oxide and coal dust; is assisted generally by a furnace second hand; takes with soft clay, a receiver on to end of each retort; supervises firing of furnace usually using producer gas, regulates flow of gas by means of valve, also regulates flow of secondary air for burning with gas; when zinc has distilled into receivers, removes ladles and heats zinc till it runs out into ladles and casts it into ingots or plates in iron moulds.

furnace keeper (blast furnace), blast furnace keeper; blast furnace tender, founder (S. Wales), keeper (blast furnace); is in charge of a blast furnace, and is assisted by men on it; superintends charging, slagging and tapping of furnace; making of pig moulds and breaking up pigs for removal, taps furnace by driving with heavy hammer, steel rod into baked clay plug in pouring hole of furnace, breaks up plug, which is swept aside by stream of molten iron (or lead, as the case may be); superintends and may assist at re-plugging furnace pouring hole; gives instructions when large lump of clay is to be thrown into hole and assigns gang of men in driving plug home with long metal rods.

furnaceman, blast furnaceman; general terms for any worker employed around a blast furnace; includes furnace keeper, cupola furnaceman (copper), smelter (copper) *q.v.*

furnaceman, drop stamp; attends furnace, coal or gas fired, in which he places small lengths of iron or steel bar or rod to be heated for drop forger (190) *q.v.*; withdraws bars or rods, when sufficiently hot, by means of tongs, and passes them to drop forger.

furnaceman (open hearth steel); general term covering smelter, first hand, second hand, third hand, fourth hand *q.v.*

furnaceman, ore furnaceman; is in charge of furnace in which he roasts natural ores, usually crushed to powder, either alone or mixed with suitable substances; superintends heating of ores by tending fires below furnace or regulating valve admitting producer gas and secondary air to gas jets in furnace; charges ore to hearth of furnace or into top of furnace, by hand shovelling, tipping from barrows, or by mechanical conveyor, and takes it over by hand, or mechanically, to ensure equal heating of charge; withdraws charge when action has proceeded to certain stage by hand or machine raking, or by other mechanical means; may also regulate flow of air to furnace if charge is not to be oxidised during roasting, by opening or closing dampers; cf. calcinar, roaster.

furnaceman (rolling mill or steel forge); mill tender (rolling mill), sheet mill furnaceman, sheet mill heater; tends furnace and superintends firing of same, carefully controlling temperature to ensure that bars, billets, or rods of iron or steel, which he sets in it, are brought to correct temperature for rolling or forging; judges (frequently) correct temperature by appearance of iron or steel or by pyrometer readings; removes heated metal bars, etc., by means of tongs and travelling crane to steam hammer or rolling mill; sometimes specifically designated, *e.g.* guide rolling furnaceman, plate furnaceman, sleeper mill furnaceman, spindle furnaceman, wire rod mill furnaceman.

refiner, refining furnaceman, **copper refinery man** (copper); a **reverberatory furnaceman** (copper) who shovels "blister" (95 per cent. pure) copper with a shovel from on hearth of furnace; stirs copper when molten to assist oxidation of impurities; poles metal with log of green wood to reduce oxidized copper; takes sample or button for test by chemist; taps out copper at intervals into ladles or mould.

refiner, refining man (iron); a **furnaceman** g.v. in charge of process of refining pig iron by re-heating it in furnace before puddling.

refiner, refining furnaceman (lead); **refiner furnaceman**, **refiner** (lead); a **reverberatory furnaceman** g.v. who shovels or tips impure lead, e.g., pig lead, containing silver and/or gold on to movable hearth of special cupellation furnace, pushes hearth, which is on wheels, into position in furnace; when charge is melted, opens valve which causes blast of air to be directed to surface of lead thus oxidizing it to lead oxide which, as it forms, is blown by blast to one side of hearth and away through special channel out of furnace; continues process until silver and/or gold only is left which cannot be oxidized in this way, holds out hearth on its rails at intervals to ascertain when action is complete, and taps furnace to extract silver and/or gold at end of process.

refiner, spelter, **see smelter** (zinc).
refiner, tin; a **reverberatory furnaceman** g.v. who places blocks of impure tin on sloping hearth of furnace and gradually raises temperature of furnace by adjustment of dampers so that purer tin melts first and runs down to lower level of hearth; ladles metal at intervals into cast iron kettle, allows it to settle and runs off less pure tin from surface of tin in ladle for further refining; pours purer tin into moulds.

refinery man (zinc); **ingot maker** (zinc); melts zinc plates or ingots produced from refining furnaces in cast iron pot, skims off oxides, thoroughly agitates molten metal with pole of green wood; reduces temperature by closing dampers, when lead present collects at bottom of pot, then ladles off zinc and casts it in iron moulds of form and size of plates or ingots required.

re-heater; a **furnaceman** (rolling mill) g.v. who takes metal sheets, rods, bars, etc., that have become cool during rolling operation, and heats them up again to rolling temperature; soaks sheets, etc., with tongs, places them by hand, or by crane if too heavy, into furnace, switches them to reverse colour change which indicates that they are again fit for rolling, and then withdraws them, using tongs and crane, handing them over to roller (173) g.v. again.

reverberatory furnaceman; is in charge of a reverberatory furnace in which fire is at one side and metal furnace and so constructed that flames and hot gases are conducted over top of metal and are bent down by a sloping roof on to surface of charge on hearth; superheats, charging of furnace by hand shovelling or tipping into hoppers over hearth, raises charge during heating, if necessary, and takes it out when process of heating is completed, regulates admission of air to fire by means of fire doors if charge is to be oxidized or reduced, by opening or partly closing them respectively.

revolver man, **revolving furnaceman**, **rotary furnaceman**; a **furnaceman** (rotary furnace) g.v. in charge of a furnace having rotating platforms at different levels on to which ore is automatically raked, used for calcining or roasting copper and other ores; oils and greases working parts of machinery; maintains flow of water in cooling channels; watches outfall of calcined ore on to conveyor

at bottom of furnace and repeats to foreman if fault in process arises.

roaster, **ore roaster**; a **furnaceman** g.v. who attends to hand or mechanically charged furnace in which crushed ores are heated directly by a fire beneath the hearth or by hot gases which pass under and over it, may rake over ore by hand, or central levels of machines which do it mechanically; when ore is sufficiently roasted, it may be speckled from furnace mechanically or shovelled out by hand into barrows; also attends to furnace fire; sometimes specifically designated, e.g., arsenic tin roaster, tin roaster, g.v. calciner, mine burner, ore furnaceman.

roaster, roaster furnaceman, **roaster man** (copper ore); a **roaster** (ore), **man** (copper ore) who feeds ore into furnace through which hot air is led to convert white metal (containing about 70 per cent. pure copper) into "blister" copper (95 per cent. pure copper and 5 per cent. iron, sulphur, arsenic, etc.).

rod mill furnaceman; a **furnaceman** g.v. who combines duties of furnaceman (rolling mill) and annealing furnaceman g.v. in a rod rolling mill.

rotary furnaceman, **see revolver man**.
scale melter; collects scale, i.e., partially oxidized iron which forms on iron and steel plates during rolling operation, and, being stiff, chips off as plates bend; shovels it into furnace with powdered coke, and taps off melted iron at intervals into ladle.
scrap furnaceman; shovels or tips steel scrap into crucible, or cupola of melting furnace, sends furnace and taps off melted steel into ladle.

scrappman, **scrapp melter**, **scrapp roller**, **see calciner** (scruff).
scythe smith's heater; heats blades for scythe smith or scythe forger (190) g.v. and assists him generally.
sheet mill furnaceman, **sheet mill melter**, **see furnaceman** (rolling mill).

Siemens-Martin furnace man; general term for melter (first hand, second hand, third hand, or fourth hand) g.v. engaged in making open hearth steel by the Siemens-Martin process.

sister (lead smelting), **see fume roaster**.

sintering hand, **see potman**.

slagger (lead smelting), **see fume roaster**.
slagman; a **furnaceman** g.v. who beats copper slag (produced at first melting of bullion lead) until "matted" (mass of molten lead mixing with sulphides of metals such as iron and copper) separates by gravity from "spume," i.e., metallic compound containing lead, cobalt, iron and arsenic, with traces of other metals; cf. **slagman** (170).

smelter, **smelting furnaceman** (copper), **see cupola furnaceman** (copper smelting).

smelter (open hearth steel), **see for melter** (first, second, third or fourth hand).

smelter (zinc); **distiller** (zinc), **melter, spelter refiner**; a **furnaceman** g.v. in charge of process of smelting zinc, including zinc; controls workers carrying out process; is responsible for proper working of furnaces and for quality of spelter produced.

smelt mill man (lead); attends to Scotch hearth or roasting furnace for lead ore; feeds fire, charges, discharges and regulates heat of furnace.

soaker fireman, **soaking pitman**; is in charge of large brick chambers (soaking pits) into which ore to be lowered, by travelling crane, from steel ingots, moulded by beamer (175) g.v. whilst still very hot; places lid on chamber and leaves ingot in it throughout the soaking and then removes it ready for rolling by attack, regulates, by a valve, flow of producer gas and, by series of dampers, flow of secondary air to burners

around pits, these keeping hot and bright hot during soaking process, and softens, softening furnaceman (lead), **see improving furnaceman**.
spare hand keeper; acts as furnace keeper g.v. in absence of regular furnace keeper; is usually a chief or senior slagger (173) g.v. and is so employed when not required to act as furnace keeper.

spelter furnaceman; (i) a **reverberatory furnaceman** g.v. who charges spelter, i.e., partially purified zinc ore, on to sloping hearth of reverberatory furnace, and tends furnace so that lead in spelter melts first and runs into hollow; ladles out lead; raises temperature to melt "hard zinc," an alloy of zinc and iron, and finally melts nearly pure zinc which he ladles off from hollow in hearth; cf. **refinery man** (zinc); (ii) a **assistantman** g.v. who roasts zinc blends or calcines to prepare it for smelting.

steep cupola man; a **cupola tender** (Bessemer steel) g.v. who is in charge of cupola for melting spiegelsteins to be added to charge of pure iron in molten state in Bessemer converter.
steel furnaceman, **steel melter**; general terms covering melter, first hand, second hand, third hand, fourth hand.

steel press furnaceman (forge), **see for furnaceman** (rolling mill).

stone burner, **see mine burner**.

stove fireman, **stove firer** (blast furnace), **see stoveman**.

stoveman (blast furnace), **stove mixer**, **stove dresser**, **stove firer**; attends to stores in which blast furnace gases are burnt to heat brickwork inside stove until brickwork is sufficiently hot; moves lever diverting blast furnace gases from one stove into another and opens valve admitting air, blown in under pressure, to pass through stove; changes passage of blast furnace gas into different stoves, usually four to each furnace, and passage of air from above air pipes, through stoves to furnace, at regular intervals, usually every hour; sometimes done by gas man g.v.
Talbot furnaceman; (first hand); is in charge of Talbot furnace, in which steel is made as a continuous process by the open hearth method; work similar to that of melter (first hand) g.v. except that tapping of steel is done at regular intervals by moving lever which lifts hearth thus pouring out steel into ladle; (second hand); assists Talbot furnaceman (first hand) g.v.; work similar to that of melter (second hand) g.v.; (third hand) assists Talbot furnaceman (first and second hands) g.v.; work similar to that of melter (third hand) g.v.

tinker g.v. **see potman**.

tin cupola smelter, **tin furnace smelter**; **tin smelter**; a **reverberatory furnaceman** g.v. who tips or shovels an intimate mixture of roasted tin ore ("black tin") and powdered coal on hearth of furnace; keeps furnace doors nearly closed to avoid oxidation due to excess of air in furnace gases; rakes over tin ore till tin is reduced and melted, ladles off tin and slag (dross) from furnace in a kind of ladle, allows it to settle and skims off dross, leaving tin ready for pouring into moulds to make ingots.

timberhouse fireman; controls valve regulating supply of producer gas and opens "ports" admitting secondary air to combustion chamber set beneath tin pots in intimate dipping machine; replenishes tin at intervals by adding fresh material; also replenishes grease pot by adding palm oil; generally done by tinman (263) and/or his helper.

tin smelter, **see tin cupola smelter**.
undressed furnaceman; (i) assists furnaceman g.v. in any way as required; (ii) general assistant; **undressed melter** (second, third or fourth hand) g.v. at open hearth furnace; (iii) on small furnace may be engaged on

except that steel is pushed along on dead rollers, i.e., not mechanically driven, by catches and assistants using tongs and special grapping irons for turning steel over opposite next gap in rolls; when rolls have been reversed by roller *g.v.*, pushes steel by hand back over "dead" rollers till it is gripped by rolls, and then passes from back to front; (three-high mill, not modern) as for three-high mill, modern, except that moving of steel back towards rolls for backward pass is done by hand over "dead" rollers using steel bars, tongs, and grips; (Note, chief difference between mechanical and manual handling of steel is that catches and assistants are exposed to great heat in latter case, whereas, in former case, rollers is removed some distance from steel and elevated on platform; sometimes one man or boy moves all levers controlling rollers and platens both before and behind rolls, under direction of roller; (in plate mill) arrangements under direction of roller (plate mill) *g.v.*, return pass of steel plate from back to front of mill; work as for catches described above except that plate does not require to be moved through different gaps in (plate mills are usually too high and reversible in this country); sometimes specially designated according to mill, e.g. sheet mill catcher, or according to position, e.g. front catcher.

catcher (rod rolling); turner; since end of rod, as it emerges from back of rolls, with tongs and turns it so that it passes back over roll as roll revolve.

catcher (tinplate), see behinder (tinplate).

catcher and sticker (wire); turner; catches rod from finishing train of hot rod mill and passes it into adjacent set of rolls, where rolls are continuous.

charger (tinplate), see doubler (tinplate).

cogger; bloomer; blooming mill roller, cogging roller; is in charge of first set of rolls in steel mill, in which steel ingots direct from soaking pit, see soaking pitman (171), are rolled to reduce them to plates or billets of more manageable proportions, i.e., to plates about 6 in. thick or billets about 6 in. square; is in charge of men and boys engaged on cogging rolls; either manipulates ingot himself or directs its mechanical manipulation by signals to man or boy, who, by means of a crane, moves "live" rollers, on which ingot is laid to revolve, then moving ingot forward towards rolls; sets suitable rolls in rolling machine or supervises the setting; guides ingot in its passage on rollers by means of tongs, or catches actuated by levers, so that it is forced between rolls; when steel has passed through all sections of one set of rolls, operates machinery which moves it and while platform of rollers on which it is rolled, to another set with smaller gap; passes steel plate or billet on rollers to re-heating furnace.

cogger's helper; a catcher *g.v.* engaged at back of cogging mill.

cogging roller, see cogger.

cold roller; a roller (steel) *g.v.* who passes steel plate or sheet, without previous heating, between heavy cylindrical rolls to smooth out any unevenness and polish surface, and also to render it tougher; in case of sheet metal for tin or blackplate, feeding is done by hand, but for larger sheets or plates, pushes them on "dead" rollers or by means of "live" rollers up to rolls through which they pass.

copper plate roller; rollerman (copper sheet mill); a roller (plate mill) *g.v.* who rolls out copper ingots into plates, of $\frac{1}{8}$ inch thickness or more.

copper rod roller; a section roller *g.v.* who rolls copper ingots, or billets into rod form.

copper roller, copper rollerman; (1) as for roller (steel); work is somewhat lighter as copper is softer, i.e., more easy to roll; (2) as for cold roller.

copper sheet roller; rollerman (copper sheet mill); (1) as for sheet roller, (2) as for cold roller.

doubler (tinplate); charger (tinplate); charges furnace with bars and draws first "least" steel furnace for passage to rolling mill; returns partially rolled sheets for re-heating, doubles sheet, gripping one with tongs and holding other end firmly on floor with his foot, and turns ends of doubled sheet using doubler's shears; repeats operation till sheet is eight-fold, see roller (tinplate); sometimes also steels and cleans; usually done by furnaceman (171) *g.v.*

edge tool roller; shapes blanks for edge tools, clamped over by hot or cold stamp, by passing them between successive rolls in a mill; feeds tool blanks to mill by hand with tongs.

electric roller machine minder; a roller *g.v.* who is engaged on rolling mill driven by electric power, moves electrical controls which operate rolls, "live" rollers, and rolling mill platens; see roller (steel) for purpose of rolls, "live" rollers, and platens.

finer (cutlery), see roller (cutlery).

finisher (cold rolls, tinplate); as for black cold roller *g.v.* except that thin steel sheet to be rolled has been "white pickled" (in weaker acid) and tinned.

finisher (roller), see finishing roller, finishing backhoe, finishing catcher; a catcher *g.v.* who recovers rolled metal at back of finishing, or final, set of rolls, works under direction of finishing roller *g.v.*

finishing front hooker; catcher *g.v.* who feeds partly rolled metal to last or finishing set of rolls, under direction of finishing roller *g.v.*

finishing roller; powder (roller); a roller (steel) *g.v.* who receives steel roughly shaped in roughing roll (see roughing roller) and passes it through rolls which shape it to final desired shape, such as girders, angles, channels, rod, bar, hexagon bar, strip, etc.; work is same as that of roughing roller except that rolls are more accurate and greater exactness is required, it being necessary to measure plates, wire, and rod sometimes with a micrometer screw gauge; passes finished goods on to large cooling tank to cool before being moved to warehouse.

forge roller, see puddled bar roller.

former (tubes), see roller (tubes).

front hooker; takes wrought iron in form of bars or blooms after it has been treated under forge hammer and has passed through first or breaking down rolls, and passes it to a second set of rolls, using an iron hook to lift metal; only found in mills unprovided with mechanical feed gear; *cf.* hooker, back hooker.

guide roller; usually a roller (steel) *g.v.* who is engaged on a small rolling mill in which guide rails are clamped in position on either side of live rollers to prevent jamming of metal being rolled and so that bars can be easily guided; may work in other metal.

guide roller backer; a catcher *g.v.* employed on a guide mill; *cf.* guide roller.

hard roll worker; general term for any worker assisting in rolling billets or rods in a wire drawing mill; head roller; turns applied to rollers in charge of a set of rolls and of men engaged thereon; controls work of front and back catcher, re-beater (171), shaver (279), hooker, and laborers (279) *g.v.* and is responsible that final product of mill is what is required, decides what rolls are to be used, and adjusts roll to thickness required; when rolls are no longer fit for use sends them to roll turner (169) *g.v.* to be repaired.

thresher-over; (1) (steel rolling mill), see catcher; (2) (other rolling mills) pulls steel ingot, suspended by crane, with long hook, and sends it into desired position on rollers ready for cogging, see cogger; *cf.* heavier-over (279).

hooker, back hooker; back side hook, back side hook-over, back foreman; stands at back of rolls and receives steel, or other metal, as it emerges from rolls, grips it with tongs or special hook, and guides it along over "live" rollers to next set of rolls, or to shavers, see shaver (279), or to re-heating furnace, see re-heater (171); *cf.* front hooker.

hooker-in, hooker-over, see catcher, hooking bar trailer; a hooker *g.v.* who uses hooking bar to lever bar up to entrance of roll.

iron roller, iron bar roller, see merchant roller.

lead roller, lead sheet roller; sheet lead millman, sheet lead roller; a cold roller *g.v.* who rolls lead ingots out into sheet lead, between smooth steel rolls.

merchant roller; iron bar roller, iron roller, strip roller, strip steel roller; as for roller (steel) except that material used is wrought iron, and product is iron strip, lengths of which are known as merchant bars.

mill behinder; (1) see behinder (tinplate); (2) see catcher.

millmen; general term for any man engaged on rolling mill, *g.v.*, roller, doubler, furnaceman (171) *g.v.*; sometimes also applied to their respective helpers, i.e., catcher, behinder, shaver (279), cogger, cogger's helper *g.v.*

muck roller; feeds by means of long-handled tongs bundles of wrought iron scrap which have been heated to welding temperature to heavy muck rolls, through which scrap passes and is welded under pressure into bars known as muck bars.

paragon frame roller (umbrella); a roller (steel) *g.v.* who passes heated steel strip through rolls to obtain V-shaped strip for making into patent umbrella ribs.

passer; see harrier; often further designated according to allocation of duties, e.g., first passer, second passer.

pen steel roller; a sheet roller *g.v.* who rolls steel bar into thin sheets from which pen nib blanks are stamped out in the cold.

plate gauger; measures thickness of plate, *g.v.*, steel, copper, etc., at intervals during rolling of plate, taking measurements at various places to ensure uniformity of thickness; also makes final exact test after rolling; gauging frequently done by roller (steel) *g.v.*, and afterwards checked by checker (275) *g.v.*

plate rolling machine attendants; assists roller (plate mill) generally; moves levers operating rolls and live rollers or may do work of catcher (plate mill) *g.v.*

puddled bar roller, puddle roller; forge roller; as for roller (steel) except that he rolls puddled iron which has been roughly hammered into bar form by shaper (174) *g.v.* roll maker, rail roller; a roller (steel) *g.v.* who rolls heated steel billets into rails for railways, tramways, etc.

receiver, see catcher; sometimes specially designated, e.g. sheet mill receiver.

rim maker, rim roller, see wheel rim roller.

rod mill hooker, see bull dogger (rolling mill).

rod mill roller, rod roller; wire rod maker, wire rod mill roller; a roller (steel) *g.v.* who rolls heated steel bars or billets into rods, from which wire may subsequently be drawn.

roller (cutlery), *finer*; as for roller (steel), rolling steel into rough shape of cutlery blade.

roller (plate mill), plate mill roller, plate roller; a roller (steel) g.v. who is in charge of rolling mill in which steel ingots or billets are rolled down between annular rolls to form steel plate; in case of rolling thick armour plate, commences with steel ingot from soaking pit; continues rolling process until plate is of required thickness, i.e. slowly adjusts distance between rolls by screw; when mill the required thickness is obtained, during rolling operation may send plate for shearing if required.

roller (steel); rollerman; is in charge of sets of rolls and of men who assist in operating them, e.g. behinder, hearse-up, breaker-down, catcher, doubler (simplex), hooker, rougher-up, screwer, and including men engaged in heating up steel when it is to such a temperature that further rolling cannot be done, see heater (171); nature of work varies according to plant installed, that in modern plant being almost wholly mechanically performed, whereas in older type plants there is considerable manual work involved in pushing bars, billets or blooms of steel about on rollers up to the rolls; further, rolls may be two-high, in which case they are reversible, by which means steel bars or blooms can be rolled from back to front of rolls; or three-high, in which case steel passes through lower pair of rolls on to movable platform which roller's helpers raise mechanically so that steel passes back between top pair of rolls, and thus saves reversing rolls; superintends placing of rolls in rolling machine, to ensure that suitable rolls are used according to product required, receives heated steel in one form or another, e.g. beam, billet, rod, bar, etc., from soaking pitman (171), or re-heater (171) g.v.; supervises helpers who, at his signals, move levers to actuate live rollers which move it to rolls; or helpers who push steel along floor of mill over "dead" rollers, i.e., not mechanically-driven, up to rolls; supervises, in particular, catchers g.v.; determines duration of rolling process, if rolls are in same train, places rollers on intermediate rollers or platform, sometimes specifically designated, e.g., hot roller (to distinguish from cold roller g.v.), sheet mill roller, sheet roller, spindle roller.

roller, rollerman (tin plate); is in charge of process of rolling out rough steel bars into steel plate, ready for tinning; sets rolls for first rolling; picks up steel bars with tongs from floor where they have been laid along by furnaceman (171) g.v.; places bar between rolls and repeats pass till thin enough, receiving plate over top of rolls each time from behinder or catcher g.v., and adjusting rolls by means of hand screw; returns plate to doubler g.v. who doubles plate and slides it along floor to furnaceman (171) g.v. to be reheated ready for continued rolling; doubling, reheating and rolling continue until plate is eight-fold, passes plate to shearer (279) and opener (279) g.v.; supervises work of catcher, doubler and furnaceman (171) g.v.

roller (tubes); former (tube); as for roller (steel), rolling iron and steel strip for tubes.

roller and bloomer, see repper.

rollerman; (i) see roller's assistant; (ii) see roller (steel).

rollerman (copper plate mill), see copper plate roller.

rollerman (copper sheet mill), see copper sheet roller.
roller's assistant; roller's helper, roller's second hand; rollerman; under roller, underhand roller; general terms for all men assisting at rolls, guiding or pushing steel billets, bars, plate, sheet, etc., to rolls and from rolls to shearer (279) or re-heater (171) g.v. or to next set of rolls, adjusting rolls under direction

of head roller g.v. or controlling mechanism of modern mechanical mill, term includes: hooker, behinder, catcher, roller goy boy (279) g.v. rougher, see roughing roller.
rougher-down; a roughing roller g.v. in a rolling mill in which raw material used is steel billets, i.e., mill has no cogging rolls, but obtains billets from coarser rolls.
rougher-up; guides bar by means of clods or pins into roll and signals to screwer, who operates worm gear to adjust roll to varying thicknesses of bar.

roughing hooker; a hooker g.v. who works at roughing rolls, as which have or billets are roughly rolled to shape. According to final product required: roughing roller, roughing mill roller; roller-down (Northern Counties), rougher; a roller (steel) g.v. who receives heated lengths of billets (steel bar about 6 inches square) and rolls them roughly into shape in which they are finally required, after which the rough shaped product is reheated ready for finishing roller g.v.; billets are received from reheating furnace to which they are sent from cogging rolls, thus roughing rolls are intermediate between cogging rolls and finishing rolls.

runner; through, guide rolling runner-through; (i) puts foremost end of metal being rolled into guide box of rolls by means of tongs, and closes box as soon as section is applied in rolls; (ii) (wire rolling) a catcher g.v. who centres end of rod as it emerges from rolls, which are three-high, and turns end into next pass hole above where it passes between rolls revolving in opposite direction. screwer, screwer-down; screws down rolls of rolling mill to obtain required space between rolls, according to a gauge set by rollerman g.v.; may be done by turning a wheel by hand, by lever (for small rolls) or by operating levers or wheel controlling hydraulic or electric mechanism, see screw gear driver, sometimes specifically designated, e.g., first screwer (at first set of breaking down rolls), second screwer.

screw gear driver; a screwer g.v. who adjusts distance between rolls by operating levers or wheel controlling hydraulic or electric mechanism.

section roller; general term applied to any finishing roller g.v. who produces finished rolled steel in any form except plate or sheet, i.e., in form of bar, rod, strip, girder, channel, angle, etc.
sheet lead millman, sheet lead

sheet lead roller; a roller (plate mill) g.v. who is rolling steel bars or ingots into plates for ships.

side roller (type moulder); a roller's helper g.v. who assists in rolling types of steel wheels.

square hand (rolling mill); does odd work in rolling mill, e.g. loading, piling, and takes place of any roller's helper g.v. absent from mill through absence sickness, etc.
strip roller, strip steel roller, see merchant roller.

subordinate roller; takes roller's duty during night shifts, where roller (steel) g.v. works on contract.
sword blade roller; a finishing roller g.v. who rolls out from special bar steel, strips of steel from which sword blades are stamped or forged.

tapered strip roller, see wedge roller.
tea lead roller, tea lead worker, see lead roller.

tin foil beater, tin foil roller, as for lead roller; tin foil is usually an alloy of tin and lead.

turner-in (rod rolling), see catcher.
turner-in (rod rolling), see catcher and staker (wire).

tyre roller; wheel roller; a roller (steel) g.v. who operates special set of rolls, called tyre rollers, rolling mill which rolls steel tyre of cast iron, etc. wheels; grips heated circular forged blank of tyre with tongs and places it on end of one roll,

and after setting rolls in motion screws up other roll so that it approaches first roll thus rolling tyre. underhand roller, see roller's assistant.
under roller; (i) general term applied to roller who does less important rolling; any work so night shift; (ii) (sheet mill) see breaker-down; (iii) see roller's assistant.
wedge roller; tapered strip roller; a section roller g.v. who rolls wedge-shaped sections of iron and steel packing used by shipbuilders.
wheel rim roller; rim maker, rim roller; a sheet roller g.v. who rolls steel bar into strip of cross-section of wheel rim.
wheel roller, see tyre roller.

wire rod mill, wire rod mill roller, see rod mill roller.

zinc roller; as for roller (steel), except that work is not so heavy and final product not as varied, product is usually zinc rods or sheet.

Sub-Order 4.—Foundry Workers.

180.—MOULDERS (not Blast Furnace).

aluminium moulder; a moulder (hand or machine) g.v. who makes moulds in sand for casting aluminium, usually in small lots where a machine does it unsuitable.
axle bush moulder; a moulder (hand or machine) g.v. who specializes in preparing moulds for casting, and in casting axle boxes, or axle bushes, principally for railway work.

bell caster, or bell founder, bell foundry, bell caster, bell moulder; superintends mixing and melting of bell metal (hard bronze, an alloy of copper and tin), and makes a last mould in which bell metal is cast in casting pit of bell foundry this fixes crook (a double compass of wood whose legs are shaped like cross section of bell) or to pivot of stake firmly fixed in bottom of casting pit; builds up core of inside of bell with mixed sand, clay, bricks, etc., using inner leg of "crook" to obtain correct shape, plaster on moulding sand, grease and tan dust with trowel, lights are inside this core to dry it thoroughly and then when dried, plaster clay on it with trowel till clay coating is in form of bell itself (outer leg of crook acts as guide in making bell of clay), mould by hand with hand tools, top at "crown" of bell in clay, thus completing clay bell; dries this bell and bakes whole by means of a second fire kindled inside core; when cool, places on clay bell, moulds, any ornamentation, scrolls, figures to be cast on bell; scores surface of clay bell with grease and tan dust by hand, and then builds up sand mould outside clay bell, ramming firmly round bell raised brick in mould to help it to bind; completes making of outer sand mould, and makes pouring gates, and risers; when dried, raises it off clay bell, which he carefully breaks away from core, lowers mould again into correct position over core; pours molten bell metal from crucible or ladle into mould; leaves mould and casting to cool and when cold, supervises breaking down of mould and removing of bell for finishing, other term may be applied to proprietor of bell foundry.

bell moulder, see bell founder.
bench moulder; tub moulder (brass); a hand moulder g.v. who makes small moulds at bench, instead of on floor of foundry; cf. green sand moulder.

brass caster; caster (brass foundry), foreman caster, principal hand, principal tub foundry hand; superintends melting of brass, bronze, etc., placing weighed quantity of copper in crucible set in furnace, and adding gradually,

weighed quantity of zinc; makes mould and file in the core ready for casting, duties as for moulder (hand or machine); pours metal into moulds when it has reached correct temperature and superintends removal and cleaning of castings; in some cases, making of mould is done by a second hand or moulder and brass caster merely superintends work of foundry, and attends to actual pouring of metal; cf. *caster* (1884); all work of moulding is done at a moulding tub which resembles a large wooden trough, in consequence a brass caster is known as the "principal tub hand" and his assistants as "tub hands"; sometimes specifically designated according to article cast, e.g. brass letter caster, brass look caster, brass weight caster.

brass moulder; *caster's helper*, second hand, *tub moulder*; looks after heating of crucibles in furnace in which copper and zinc are melted together, puts cores in core oven to dry; makes moulds (see hand or machine moulder) and fastens in cramps; in other than large works, sometimes does work of brass caster.

bronze article caster, bronze caster, as for brass caster.

caster (brass foundry), see brass caster.

caster's helper (brass foundry), see brass moulder.

chair moulder, railway chair moulder; iron chair maker, rail man (chair foundry), railway chair maker; a moulder (hand or machine) q.v. or a plate moulder q.v. who specialises in casting metal chairs for railways.

connection moulder; a moulder (hand or machine) q.v. who makes moulds for casting pipe connections.

copper roller maker; moulder (hand or machine) q.v. who attends to melting of copper in crucible in furnace, prepares moulds, and pours molten copper thereon to form copper rollers.

core filar; reduces size of core, or finishes it by rubbing it with a wire file; usually done by coresmaker q.v.

core maker, core moulder; (i) (hand) makes core which is to be fixed in mould, see moulder, when ready for pouring of molten metal; (single shaped stout core) makes clay, sand, and clay mixed with horse manure

(to provide for compressibility under contraction of casting) into wooden core box, i.e. a moulding box for cores, so that core takes shape of core box; takes core box apart and smooths surface of core where necessary.

places core in oven to be thoroughly dried; (complicated shapes) builds up core round cast iron skeleton or framework, winding bar or steel bands (ropes) to form base on which bar, frame and, clay and horse manure in core box, is

moved over and dried in oven; (cores for pipe moulder) builds up core as above on basis of perforated iron bar; smooths surface of core by turning it on lathe and places it in oven to dry; finally passes core to moulder for inclusion in mould; (ii) (machine)

makes cores by any of above hand methods, except that ramming of clay and sand is done by machine press, which holds core box, pulls lever operating mechanical ramming apparatus; in all cases carefully cuts vent holes in core with special tools to liberate any gases generated on pouring; in more complicated cores inserts waxed threads in core, the wax melting in drying oven and being absorbed by sand to leave vent channels; sometimes, specifically designated, e.g. ploughshare

coresmaker.

core turner; makes metal core bars require on strong cast iron trowels while core maker q.v. winds on hay or straw bands, and affixes mixed clay, sand, core, gum, etc., on a circular core.

dry sand moulder; a moulder (hand or machine) q.v., using dry sand with addition of certain amount of old loam, which is dried before use, to make moulds; is usually engaged on production of long large moulds for castings such as pipes, columns, and flywheels.

floor moulder; a hand moulder q.v. who makes moulds on sand floor of foundry, usually done in case of large moulds to avoid unnecessary lifting.

foundryman moulder, see brass caster.

foundry; general term for any worker engaged in casting yellow metals, including brass caster, brass moulder q.v.; usually prefixed by name of metal worked in, e.g., brass foundry, brass moulder.

green sand moulder; a moulder (hand or machine) q.v. who specialises in making moulds for casting those articles which can be best cast in green sand moulds, i.e., moulds which do not need to be dried in the core oven. cf. batch moulder, floor moulder.

hand moulder; makes moulds in which molten metal is poured to produce castings; shovels sand and loam (drag) of moulder's flask

into it; fills then places wooden or metal pattern, made by pattern maker (480) q.v., in centre of box and using mallet, hammers it into sand until approximately one-half is submerged; smooths off rest of sand.

ramming it firmly into position round pattern; removes pattern, sprinkles facing sand, a mixture of fine sand and cool dust, in mould shape produced; batters pattern again into sand to bind fresh sand added, and then, after removing pattern again, coats whole of sand surface with black-wash

containing carbon, using hand broom; replaces pattern, places upper box of moulder's flask on lower one, and fills this with sand, carefully ramming sand firmly by hand, round pattern, as usual; and, if necessary, rammed, also puts in with sand, metal supports which help sand to retain shape when upper box is removed;

removes upper box, turns it over, sprinkles finer sand in mould shape made by pattern, presses it again on pattern, and then paints moulded surface with black-wash as was done in case of lower box; replaces upper box on lower and with sharp metal instrument, makes hole down through sand to pattern, and heaps sand round top of hole to form pouring bole for caster (183) q.v.; removes

upper box, takes out pattern, sprinkles a little "parting" sand (burnt sand) on upper surface of lower box, then replaces upper box, clamping it firmly to lower one; sets mould sand ready to be thoroughly dried in oven, after which it is dry for

caster; in case of mould in which cores are required, moulder also places "core print" in sand with pattern and on finally removing pattern and core print (two-piece pattern of core itself) replaces latter by core.

iron chair maker, see chair moulder.

iron corer; fixes an iron core or chill in mould in place of whole or part of ordinary sand core, so that the surface of casting is cooled rapidly and so hardened.

loam moulder; makes moulds of loam, a mixture of clay, sand and chopped straw, usually without aid of a pattern to be used in casting large, more or less circular objects, builds up foundation on special plate or on floor of casting pit, using loam bricks and loam which is wet and easily worked; levels off foundation, fixes spindle vertically in centre of plate and fixes templates on to spindle by means of which he builds up

outer mould, or "cope," with loam bricks and loam and also builds up core in similar way ("face" both "cope" and core with plastic loam and smooths them off with trowels and scrapers to coincide with templates supplied, revolving template on spindle to ensure uniformity in

all parts of mould; leaves space inside core for fire to be made (if mould is too large to be dried in core oven), and superintends making of fire, flow plate on top of mould when finished and clamps upper and lower plates together; in case of core which is loose inside mould, fixes it in position, using template as a guide, and by means of bolts and nuts, fastens it to upper and lower plates, which would be complete, dries it ready for caster.

machine moulder; makes moulds by machine for use in casting articles in metal; work involved depends upon type of machine; (hand moulder) machine) as for plate moulder, except that separation of upper part of "flask" from pattern plate is performed by moving lever; pattern plate is then raised, and carefully removed, when after casting mould with "black-wash" hand machine moulder clamps parts of flask together and removes them from machine ready for drying in oven; (moulding press) as for hand moulder, machine) as for plate moulder, except that ramming is done by moving lever operating press (hand, steam, pneumatic, or hydraulic) which descends on sand and squeezes it into all crevices and interstices of pattern; (moulding machine) as for plate moulder, except that moulding sand is shovelled into filling frame from which it passes into "box" or upper and lower part of "flask" by moving a lever; ramming is also done by moving levers, and upper part of "flask" and pattern plate are moved up and down for removal of plate and coating of mould with black-wash — by mechanical means.

marker-off, a specially experienced moulder who prepares core iron, i.e., roughly cast iron framework on which more complicated and large cores are made, and superintends fitting up of boxes.

matrix maker; mould maker, pattern plate moulder; a highly skilled hand moulder q.v. who makes, for repetition machine moulding, a metal mould which is afterwards machined to accurate dimensions by the metal

chiseller (200) q.v. so that the best and cleanest castings only may be obtained from it.

moulder; mould maker; general term covering any type of moulder, e.g., hand moulder, machine moulder, plate moulder, or moulder, bench moulder, etc.; sometimes specifically designated according to metal to be cast in mouldable mode, e.g., aluminium moulder, brass moulder, bronze moulder, gun metal moulder; according to type of sand used as moulding medium, e.g., green sand moulder, dry sand moulder, loam moulder, sand moulder; or according to article to be cast in mould made, e.g., chair moulder, hollowware moulder, nail moulder, pipe moulder, roll moulder, shell moulder, stamp moulder (straight

pattern).

mould maker; (i) see moulder; (ii) see matrix maker.

nail moulder; a plate moulder q.v. or a machine moulder q.v. who makes moulds to be used for casting nails.

oddside man; a moulder (hand or machine) q.v. who makes moulds using an oddside mould as a pattern; "oddside" mould is very carefully prepared by a more skilled moulder, for use in repetition work, e.g., gas

slots; latter is a plate of Paris cast of a number of patterns fixed in correct position in mould.

oddwork moulder; a jobbing or general moulder (hand or machine) q.v. who makes moulds, from any type of pattern in green or dry sand for casting articles for various trades and general purposes.

pattern moulder; a moulder (hand or machine) q.v. who uses a wooden pattern to make moulds in which iron or other metal patterns are to

be cast for use by other moulders; (work is necessarily very accurate, as errors in mould would be repeated in every casting taken from subsequent moulds made by master metal pattern).

pattern plate moulder, *see* matrix maker.

pipe bank moulder; iron pipe moulder, pipe founder, pipe moulder; a moulder (hand) *q.v.* who makes moulds for casting pipes on a sand heap (called a bank) using boxes set on an incline and not vertical boxes used by pipe pit moulder *q.v.*

pipe founder, pipe moulder, iron pipe moulder; (i) *see* pipe bank moulder; (ii) *see* pipe pit moulder.

pipe pit moulder; *see* pipe founder, pipe founder, pipe moulder; a moulder (hand) *q.v.* who makes moulds for casting big pipes in foundry pit using vertical boxes.

plate moulder; a moulder who uses sand into which molten metal is to be poured by caster (183) *q.v.* using metal plate, on to sides of which have been bolted or cast, shapes of two halves of article to be moulded (roughly cut-half on each side); shovels sand into wooden or metal box, opens top and bottom, rams on sand, until box is filled; places plate flat on box and, using mallet, rammers it down, until plate takes shape of one side of mould; places another similar box on top, fills it with sand and rams sand down on plate using hand rammer; when sand has been firmly rammed down on upper side of plate, makes hole in sand down to plate using small sharp metal instrument, and heaps sand up round top of hole to form pouring hole for caster; with help of assistants, lifts off top box or flask, gently taps plate and removes it carefully, parts, with hand brush, those parts of mould which will come into contact with hot metal, with a liquid blackwash containing carbon to prevent oxidation, or surface of casting and fusion of sand of mould; replaces top box (cope) on lower one (drag) and clamps them together, mould is now ready for caster.

principal hand, principal tub hand, *see* brass caster.

rail man (chair foundry), railway chair maker, *see* chair moulder.

sand caster, *see* brass caster.

second hand (brass foundry), *see* brass moulder.

setter; a loam moulder *q.v.* who sets out and supervises work of other loam moulders.

spray moulder; a moulder (hand or machine) *q.v.* who, in making a mould for a cast, has the complicated casting, or number of castings (when several moulds are made together), makes a runner and a number of gates for each casting, so that molten metal can run into all parts of mould quickly and that imprisoned air and generated gases are easily able to escape; (when caster pours molten metal into mould, it fills up runners (pouring holes), and gates (ventilating holes) and, as a result, when cooled and sand is removed, cast metal runners and gates form a spray).

tub hand; general term applied to moulders, gutters-down (185), *etc.* *q.v.*

tub moulder (brass); (i) *see* brass moulder; (ii) *see* bench moulder.

tuyra maker; a moulder *q.v.* engaged in making tuyeres for blast furnaces by the usual moulding methods.

charger, cupola; furnace charger; cupola feeder; who fills trucks or barrows of coal or coke, pig iron or scrap iron, and limestone from top of hoist to oblong door of cupola, opens door and tips in contents of barrow, closes door and returns empty trucks to hoist for refilling, of blast furnace charger (279).

crucible man (steel furnace); places or begins containing materials for pouring special steel in furnace, uses long-handled tongs, and withdraws it when steel is melted, and at suitable temperature for casting.

cupola feeder, *see* charger, cupola.

cupola hand; furnace attendant, furnaceman; general term for men assisting at cupola furnace in foundry, including cupola charger, charge wheeler (279) *q.v.*, men assisting at tapping molten iron and slag into ladles, and re-plugging top holes, or performing other simple, semi-skilled or unskilled work about the cupola.

cupola man, cupola tender; blast furnaceman, cast house furnaceman, furnace tender, iron heater (foundry), smelter (foundry); is in charge of cupola, a furnace in which pig iron and scrap are melted ready for casting, and supervises men engaged thereon.

is responsible for correct charging of cupola with coke and iron, for air blast blown in near bottom through tuyeres, and for periodic tapping of molten iron and slag into ladles; work similar to that of furnace keeper in ironworks (171) *q.v.*, except that cupola is usually smaller and is charged with pig iron instead of iron-ore; usually tops cupola himself by breaking baked clay stopper with hammer and pointed iron bar to its bottom, and metal into separate ladles and assists in plugging hole with moist clay; prevents accumulation of slag by poking with iron rod at blast, or tuyere; watches progress of melting of iron through men windows set in side of cupola, some times does work of cupola tetter (565) *q.v.*, of cupola man (279).

electric furnaceman (foundry); controls switches which supply electric current to small furnace in which special steels are melted by heat generated by electric current; places known weights of steel, broken into small pieces, in furnace and adds carefully weighed amount of manganese, chromium or other special metal in furnace and switches on current which melts mixture; taps off metal into small ladle for casting.

furnace attendant, furnaceman, *see* cupola hand.

furnace tender, *see* cupola man.

iron heater (foundry), *see* cupola man.

smelter (foundry), *see* cupola man.

183.—IRON OR STEEL FOUNDRY FOUNDRY LABOURERS.

beck tetter; attends to removal of slag at back of cupola and assists in charging, *etc.*

berreller, *see* tumbler.

box filler; *gutter*; fills up moulding box with sand by shovelling, after moulder (180) *q.v.* has placed pattern in box and covered it with special sand that has to be nearest to casting, in small moulds, box filling is done by rider (180) *q.v.*

box lifter; *after-up*; lifts up box containing pattern embedded in sand, after sand in top box (cope) has been rammed, and turns it over so that sand in lower box (drag) can be rammed, this occurs only in hand moulding and in case of smaller moulds, may be done by rammer *q.v.* or even by moulder (180) *q.v.*

breaker, iron; pig breaker, breaker

man; breaker; breaks up pig iron and scrap iron ready for charging into cupola by cupola charger (279) *q.v.*; uses sledge hammer if by hand or places pigs or scrap under power hammer or breaks them with bar breaker.

breaker-off; knacker-off; a settler *q.v.* whose special duty it is to break off "gates," "risers," and "runners" from castings, using hammer and chisel; ("gates," "risers," and "runners" are solid bars of metal which result from solidification of molten metal in pouring holes and ventilation holes, running from casting to top of mould and in connecting holes which are made to permit passage of molten metal from one mould to another when more than one article is cast in a series of moulds at a time, or when two or more castings are made in one mould).

breaker-up, *see* breaker, iron breaker; a fettler *q.v.* who cleans up a casting by hand, using a wire brush with which to brush off adherent sand cake maker; makes sand bricks by ramming sand into square moulds, seals brick or "cakes" to oven to be dried; ("cakes" are used by moulders to strengthen weak places in large moulds, and to ease off contraction).

caster; feeder; pourer; pours molten metal, iron or steel, from ladle into mould; (small hand ladle) grip-ladle or crucible, in which steel is melted, with tongs or other gripping device and tips it gradually, allowing edges to fall into pouring hole (gate) in top of mould; continues pouring until mould, gates and runners, *i.e.*, ventilation holes, are filled with metal, so that as metal cools and contracts, a vacuum is gotten and runs of metal into mould will keep it full; (large ladle) receives ladle of molten metal swung from arm of casting crane, pulls it into position over mould and more lever of ladle opening pouring hole in its bottom, watches metal as it goes, and gates and runners are filled, and then turns off flow of metal; instructs casting crane-man (609) *q.v.*, as to where ladle is to be moved for next casting, and continues pouring until ladle is empty; sometimes specifically designated, *e.g.*, comb caster, cutler caster, iron cabinet caster, key

caster, nail caster, pillar caster, rail

caster (bedsteads), tuipe pipe caster,

caster, angle iron, *see* runner; a

caster *q.v.* who pours ends of angle

iron bar, *i.e.*, iron beams of angle

section, in special mould and pours or

rams molten metal into mould to cast

dovetail on end of beam.

caster, French; a caster *q.v.* who casts

cast-iron corner pieces and angle

irons to pillars of bedsteads, *see*

caster, angle iron.

caster, malleable; a caster *q.v.* who

makes castings of malleable iron, *i.e.*,

pig iron from which most of carbon

has been burnt off.

caster, addwork; a caster *q.v.* who,

not specializing, casts miscellaneous

articles, as required.

catcher, iron catcher; catches molten

metal tapped or poured from foundry

furnace in large ladle for distribution

to smaller ladles or shanks.

chair scrubber; a fettler *q.v.* who

specialises in cleaning up railway

chair castings.

chipper; a fettler *q.v.* who cleans up

castings by chipping off irregularities

by hand, using a hammer and

cold steel chisel, or by machine

using a pneumatic hammer or

chisel, sometimes iron specified

designated, *e.g.*, bedstead

chipper, iron hollow-ware chipper,

rod chipper.

cleaner, *see* fettler; sometimes

specifically designated, *e.g.*, castings

cleaner, iron cleaner, metal cleaner,

ring cleaner (pistons), steel cleaner

(foundry).

cleaner-up; smooths over surface of

mould with trowel and cleaners, and

applies a thin coating of foundry

blacking on mould prior to casting,

after mould has been dried.

closer; mould filler (iron or steel

foundry), resins, dried parts of

mould and cores ready for

assembling; inserts cores in correct

182.—IRON OR STEEL FOUNDRY FURNACE AND CUPOLA MEN.

blast furnaceman, *see* cupola man.

blast tender; in charge of fans or

blowers which produce blast to assist

in melting of iron in cupola or fur-

nace.

cast house furnaceman, *see* cupola

man.

position and places cope, *s.e.* upper part of mould, on drag, *i.e.* lower part; fixes on cramps to hold two parts rigidly together during casting which is next operation.

core box; runs up small sample cores in foundry, and turns core bars by hand for core turner (180) *g.v.*; *assists* core maker (189) *g.v.* generally, keeping his armoured with materials, and carrying or wheeling away cores to core oven.

core oven attendant; attends to oven in which he places cores, *see* core maker (189) and *g.v.* (189); removes cores and moulds when dried and passes them to closer *g.v.*; attends to flues and dampers round oven through which pass waste cupola gases to heat oven.

cut-off (iron pipes); a breaker-off *g.v.* who removes "runners," "gates" and "risers" from iron pipes after casting by means of hand or machine saw.

dresser, *see* fettler; sometimes specifically designated, *e.g.* axle fettler, casting dresser, comb dresser (usable for cotton combing machines), dry sand dresser (castings made to dry sand moulds), greens sand dresser, iron dresser, iron eastern dresser, loam dresser, metal dresser, pipe dresser, steel dresser, and runner, *see* closer, angle iron.

fettler, *see* closer.

fettler (foundry), fettler of castings; cleaner, dresser, slobber, rougher, rubber-off, trimmer (iron foundry); general terms covering all foundry workers engaged in removing adherent sand from castings, and chipping off any irregularities, *i.e.* fins, gates, etc., in metal surface of casting either by hand or machine; work varies according to kind of sand of which mould is made, elasticity of mould and character and kind of finish that casting must have; (hand fettling) (i) removes sand from casting by means of wire brush, *see* brusher, and removes unevenness in metal by means of hammer and chisel or pneumatic chisel, *see* chipper; (ii) removes roughness and unevenness from castings by hand filing, *see* foundry file (333); (machine fettling) (i) places small castings in a revolving metal drum; castings roll over one another and brittle projections break off, castings thus smooth each other, *see* tumbler; (ii) holds casting up against revolving abrasive wheel or vice versa *cf.* grinder (foundry) (237); (iii) holds moulds of sand filled against parts of castings to be fettled; this method is used specially in fettling large castings which cannot easily be handled; *see* sand blaster (280); "gates," "risers," and "runners" by hand with hammer and chisel, or by means of hand or machine saw and grinds down stumps left on removing abrasive wheel; removes tar from casting, breaking core and cores from it if necessary, taking care not to damage casting; sometimes specifically designated, *e.g.* axle bearing fettler, iron fettler, plough share fettler, *see* fettler (276).

filer-in, *see* box filler.

finisher; a fettler *g.v.* who completes operation of fettling of castings after first roughness has been removed by chipper, breaker-off, or sand blaster (209) *g.v.*; may be done by a filer (253) or a grinder (237) *g.v.*

foundry labourer; general term for any unskilled or semi-skilled man employed in a foundry, including fettler, sand riddler, closer, sand wheeler, etc. *g.v.*; sometimes specifically designated, *e.g.* roll foundry labourer.

foundryman; general term for any man who works in a foundry whether skilled or unskilled, including moulder, coremaker (180), furnace-man (182), and foundry labourer *g.v.*

grinder, sand; sand roller; shovels sand, either new or from moulds which have been used, into pass of edge runner mills; sets mill in motion and shovels out ground sand when sufficiently fine.

knocker-off, *see* breaker-off.

knocker-off, *see* opener.

ladle man; useful carrier; brings ladle to cupola tapping hole by pushing it if on wheels, or by guiding it with chains, bars, etc., if swung on crane; removes ladle when metal has been tapped into it, and by means of several types it and pours metal into moulds direct (*cf.* closer), or may pour it into smaller ladles if two or more castings plus require metal at same time; examines ladle at intervals and, when necessary, does small repairs to lining, or sends it to be relined.

lifter-up, *see* box lifter.

loom mill man, *see* pug mill attendant.

metal carrier; (i) *see* ladle man; (ii) *see* shank carrier.

mixer, loam; sand mixer; (i) mixes different sands together, *e.g.* old sand with fresh, or sand with a little clay or horse manure as a binder, by turning them over with a shovel by hand; (ii) *see* pug mill attendant.

moulder's assistant, moulder's labourer; assists moulder (180) *g.v.* by fetching sand, pouring sand, foundry black, moulding boxes, patterns, core-pins, etc., mixes special sand mixtures for special moulds; may also act as runner-up or filer-in *g.v.*, or assist generally under moulder's supervision.

moulder's help, *see* riddler.

moulder's server (malleable nails), *see* moulder's assistant.

mould fitter (iron or steel foundry), *see* closer.

moulder, *see* fettler.

opener; knocker-out; removes clamps from moulding "flasks" or boxes, when casting has had time to cool and solidify; lifts off upper part of flask (cope) and removes casting and covers from mould; knocks away bulk of adhering sand and places casting on block for conveyance to fettling; shank is further returned to cope and moulding flask from which he knocks out all sand, and clamps to store ready for further use; with sharp hand tools, breaks away sand from core iron, and withdraws core iron, breaking it if necessary, care being taken to avoid damage to casting; pipe pit labourer; is employed in casting pit in which pipes are cast, assisting in general capacity in preparing pipe mould for casting, in cleaning mould, *see* closer, and setting it upright, ready for pouring of metal, and in opening, *see* opener, by removing moulding box, sand and core bar; removes core sand from bar and returns bar to store.

pourer, *see* closer.

primer; plunges iron rod into molten metal in pouring hole of mould while metal is being poured into iron casting mould to prevent iron becoming spongy and also prevents it setting in concrete form at surface of heavy moulds.

pug mill attendant; loam mill man; loam mixer, sand mixer; shovels sand, clay, straw or horse manure, or in case of sand for core making, sand and flour, resin or special core gas or other binding material, into hopper of pug mill and sets pug mill in motion, mill runs up and thoroughly mixes ingredients which are forced out of end of mill raised ready for use by moulder (180) *g.v.*; in some cases, shovels out mixture through door in bottom of machine.

runner, runner-up, box rammer; works in close conjunction with moulder (180) *g.v.*, ramming sand tightly round pattern when placed in bed of sand in lower part of moulding "flask" or "drag"; uses either a

small or large hand rammer, a steel plate fixed at right angles to handle or a pneumatic rammer; repeats operation of ramming when pattern is placed in upper part of moulding "flask" or "cope" and then again when flask is turned over by box lifter *g.v.*; sometimes also drives metal wedges into sand, after ramming, to assist in making mould firmer; work sometimes done by moulder (180) *g.v.*

rattler, *see* tumbler.

riddler, sand riddler; moulder's help; riddler, *i.e.* moves large heaps of sand and carries moulder's cores; grinds dust which moulder shapes over patterns to prevent adhesion of sand and coal dust, used to put clean face on casting; after casting, turns over sand and gets hot castings out of sand with short pliers; ratters sand to fit it for re-use, and breaks ridges and scrap from casting to be re-moulded; performs any other odd jobs for each moulder to whom he is allotted; usually takes iron from two to four moulders; is engaged in foundries specialising in small castings where moulder's assistants *g.v.* are not employed.

rocker; grades sand to be used in foundries by shovelling it into rocker or rocking sieve; rocks sieve to facilitate sifting of sand.

rougher, *see* fettler.

rubber-off, *see* fettler.

rumbler, *see* tumbler.

runner maker; makes holes in mould into which molten metal is to be poured, forcing sand aside with sharp metal instrument; work usually done by moulder (180) *g.v.*

sand preparer; general term applied to worker engaged in preparing sand for moulder (180) *g.v.*; includes sand grinder, sand mixer, sand riddler *g.v.*

sand roller, *see* grinder, sand.

shank carrier; metal carrier; carries small ladle, fitted with iron bars for carrying and handling, to cupola or to large foundry ladle for filling with molten metal, and then carries filled ladle to casting pit for use of *g.v.*; carries emptied shank back for refilling.

skimmer; skims dross or slag from surface of metal in ladle by means of piece of bent iron; also removes ash or dross which runs into pouring "gate" of mould to prevent it being carried into mould.

stove man; places cores and moulds on shelves of stoves, or core ovens, to attend to dampers which open or shut fires permitting hot gases from cupola to play on oven when it is to be heated; removes dried cores and moulds and sends them on trolleys to casting pits.

trimmer (iron foundry), *see* fettler; sometimes specifically designated, *e.g.* iron trimmer, ploughshare trimmer, *see* fettler.

tumbler; barrel, rattler, rumbler; places castings inside hollow metal cylinder, closes door and moves lever which causes cylinder to rotate on its axis, thus tumbling castings over one another and over small cast iron "shims" which are put in to assist process; continues operation till sand and irregularities in castings have been worn down and then empties "rumbler."

wheeler, loam; sand wheeler; unloads sand, loam, etc., from railway wagons, wheels it into barrows or trucks to and from sand grinding, mixing and riddling departments and to moulder when ready for use; may also assist on grinding and riddling machines.

yard labourer; performs manual moulder's work in yard of foundry, *e.g.* sand wheeling, loading and unloading, stacking, etc.

184.—BRASS, BRONZE FOUNDRY FURNACEMEN AND CASTERS.

brone ingotman, *see* caster, brone ingot.

caster; pourer; pours molten brass or bronze from crucible into ladle or special mould, holding crucible with tongs, *see* brass caster (181); sometimes specifically designated according to metal cast, *e.g.* brass caster, brone caster, copper caster, *etc.* bit caster, brass letter caster, brass lead caster, brone statue caster, or according to type of mould, *e.g.* loan caster, sand caster, *etc.* brone ingotman; or for ingot, strip, *etc.* *see* caster, strip; *see* caster, strip; *see* caster; *see* caster, *g.v.* who pours molten brass into iron ingot mould previously prepared with a dressing of oil and charcoal to make flat brass ingots for rolling into sheets.

cathosue furnaceman (yellow metal), *as* for furnaceman, brass foundry.

crucible man; draws crucible containing molten yellow metal from furnace and passes with tongs to caster, *g.v.*; usually done by brone-furnaceman *g.v.*

furnaceman, brass foundry; metal mixer, water, smelter; melts brass in crucibles in foundry ready for casting; generally works in weighed amounts of ingot brass sorted brass scrap (rejected castings, gates, runners, fins, *etc.*), from either brass castings and brass turnings, borings or drillings from machine shop; also adds copper scrap, and places crucible in furnace to melt contents; shovels broken charcoal on to surface of molten contents to prevent oxidation, and adds carefully weighed amount of zinc (spelter) gradually, stirring it with metal rod after each addition; when all zinc has been added, places lid on crucible and leaves it in furnace to raise temperature of metal to casting heat, then withdraws crucible by means of tongs and passes it to brass caster (181) and (184) *g.v.* mixer, metal mixer, *see* furnaceman, brass foundry.

pourer, *see* caster.

smaller, *see* furnaceman, brass foundry.

185.—BRASS, BRONZE FOUNDRY LABOURERS.

bell chaser; a fettler *g.v.* who rough finishes bell, after casting, by chiselling down pouring gates, fins, and other irregularities in casting, using hammer and chisel; *cf.* chippier.

bell foundry's labourer; fettler-down (bell founder); performs any odd manual work in bell foundry, and assists bell founder (186) *g.v.* generally, *e.g.* shovels sand and clay into casting pit for making core, clay ball, and core, and tends fire inside core, *see* drying it, mixes sand, pugs clay, for use of bell founder.

brass founder's labourer; *caster's* labourer, fettler-down, third hand; performs any odd manual labouring work in brass or brone foundry; generally assists brass moulder (180) or brass caster (181) *g.v.*; *cf.* tub-hand (180).

caster's labourer, *see* brass founder's labourer.

chippier, *as* for chippier (183).

cleaner, cleaner-up, castings cleaner, metal cleaner, *see* fettler (brass foundry).

dirt washer; washman; (i) washes brass or brone castings with wet cloth when removed from mould, to remove adherent grease, sand, *etc.*; (ii) shovels ashes, sand, *etc.* of brass foundry taken from neighbourhood of casting pit and furnace, into a bawrow; wheels it to washing machine, shovels ashes into sieve and turns on water supply to wash away sand, *etc.*, and to recover any brass, *etc.*, that may have been spilled during casting operations.

dresser, castings dresser, *see* fettler (brass foundry).

supplier; knocks out sand *etc.*, from moulding boxes or flasks, after castings have been removed.

fettler (brass foundry), brass fettler, castings fettler, castings cleaner, castings dresser, cleaner, cleaner-up, dresser, metal cleaner, scourer, trimmer (brass); general terms covering all persons engaged in clearing up brass castings when taken from mould; work is similar to that of fettler (iron or steel castings) (183) *g.v.*; operations covered include rough filing, *as* for foundry filer (235), floating, *as* for filer and smoother (236); emery holding, *as* for emery holder (237), tumbling, *as* for tumbler (181), sand blasting, *as* for sand blaster (270), and chipping, *as* for chippier (183) *g.v.*; sometimes specifically designated, *e.g.* axle brass fettler.

fettler-down; (i) *see* brass founder's labourer; (ii) (bell foundry) *see* bell founder's labourer.

and riddler, *as* for riddler (183).

scourer, *see* fettler (brass foundry).

sootier, bell, a fettler *g.v.* who cleans and polishes, by dipping and by hand filing and grinding, bells after casting.

skimmer; skims dross (slag) from surface of molten brass, in crucible, before casting, using a long bent iron rod, *cf.* skimmer (183); may be done by caster (181) *g.v.* from special skimming gate, *i.e.* pouring hole in top of mould, *as* required during casting operation.

third hand, *see* brass founder's labourer.

trimmer (brass), *see* fettler (brass foundry).

washman, *see* dirt washer.

186.—OTHER FOUNDRY (NOT TYPE) FURNACEMEN AND CASTERS.

accumulator plate maker, *see* caster, plate.

aluminium founder, *see* caster, aluminium.

caster, *as* for caster (183) except that usually casting is done by pouring from hand ladles, dipped into larger ladles, *as* non-ferrous castings are generally small; also moulds are usually made of metal except where sand, shapers or cores are used; *g.v.* are required; sometimes specifically designated, *e.g.*, lead caster.

caster, aluminium; aluminium ingot caster, ingot caster (aluminium), aluminium founder; a caster *g.v.* who pours molten aluminium from ladle or crucible, usually by hand, into moulds (either sand or metal moulds), or into iron ingot moulds, for casting aluminium articles or ingots; *cf.* die caster (270).

caster, *acid*, *see* caster, plate.

caster, needle; hockery needle caster; hockery needle moulder; sets bearded hockery needles in mould and pours molten lead from hand ladle into mould, so that when cool, one end of needle is fixed in bed of lead; removed from mould and takes out needles.

caster, plate; lead plate caster; accumulator plate maker, grid caster; a lead caster *g.v.* who pours molten lead from hand ladle into iron moulds to form plate or grids for accumulators, fills hand ladle, *as* required, by dipping in iron tank of molten lead maintains fire or gas under container or tank at proper heat.

caster, shot; shot moulder; runs, by means of pipe from iron crucible or ladle, molten alloy of lead and arsenic over a wire sieve set at an angle, so that lead falls through sieve about 100 feet down into tank of water, assuming spherical shape in fall; under current of lead that formed, into machine which sets them into size.

caster, tea lead; (i) a caster *g.v.* who casts lead into strip ingots for rolling into lead sheet for making tea.

(ii) (older method) pours molten lead into gutter, at top of sloping table,

and gutter is filled and lead overflows and runs down table into gutter at bottom; when table is covered with this film of lead, strips lead sheet from table and, if necessary, passes it to be rolled.

furnaceman, aluminium foundry; places aluminium ingots into plumbago or iron crucibles and places crucibles, by means of tongs, into smelter furnace, either gas or coke fired; regulates heat of furnace by opening or closing valve admitting gas to burners or by regulating supply of coke; watches thermometer dial to ensure that temperature of furnace is kept at just above melting point of aluminium; when molten, stirs aluminium sand and chips into crucible with a steel bar and throws on flux (crystals of zinc chloride, or cryolite) to prevent oxidation of metal on surface; withdraws crucible when ready and places it on a chair for convenience by hand to caster *g.v.* furnaceman (lead shot); places gas lead and scrap lead in iron crucible set in furnace and tends to heating of crucible and contents; when lead is molten, shovels in arsenic to form alloy; stirs it in with iron rod; inserts iron pipe under surface of lead and turns on tap running lead on to sloping wire grid, through which it will into tank of water below, assuming spherical form in falling; replenishes crucible with gas and scrap lead and arsenic at intervals.

moulder, hockery needle, *see* caster, needle.

shot maker, *see* caster, shot.

187.—OTHER FOUNDRY (NOT TYPE) LABOURERS.

aluminium foundry labourer; a foundry labourer (183) *g.v.* who assists moulder (180) and caster (186) *g.v.* in aluminium foundry; brings hand ladles, molten metal from furnace, and metal moulds from store, *as* required; removes castings from moulds to fettling shop, and may also do fettling, wheels in sand, riddles or meshes to filter sand, moulds are to be used, and assists in any other general way.

Sub-Order 5.—Smiths and Skilled Forge Workers.

188.—SMITHS AND SKILLED FORGE WORKERS.

agricultural machine knife plater, agricultural machine knife wagner; a blacksmith (handy *g.v.* or a machine forger *g.v.* who hammers out steel bar or sheet which he has heated in forge, till it takes, roughly, shape of knife required, cuts off blade so formed from rest of bar by bringing hammer down on sharp angled steel strike which he holds on bar; reheats forging in forge fire *as* required.

angle iron bander; an angle iron smith *g.v.* who specialises in work of bending angle and channel iron; is assisted by two or more strikers *g.v.* and sometimes by a forge furnaceman (171) *g.v.* supervises heating of angle iron in furnace and withdrawal (with assistance of crane if necessary) on to steel table; holds angle strikers on to steel table, and in bending free end round template and in clamping bent bar to table; holds flatter (a flat steel block) against bar and directs blows of strikers to hammer out bar; caused by bending; angle iron smith, anglemill; a smith *g.v.* who specialises in working in angle and channel iron (such as striders); work includes that of angle iron bender, angle iron straightener, welder *g.v.*; of bent angle striders; angle iron smith's hammerman, angle iron smith's striker, anglemill's hammerman, anglemill's striker; a striker *g.v.* who assists angle iron smith *g.v.* in drawing out angle iron from furnace when ready

for forging, using tongs and, if necessary, attaching it to crane; clamps down on angle iron on smith's steel table, assists in bending or straightening, welding, etc., by hand hammering on hot metal or on an anvil or other forging tool held in position by angle iron smith; removes clamps when iron is cool and removes angle iron from smith's table; places fresh piece of angle iron (which may be up to 10 yards long) in furnace for next forging operation.

angle iron straightener; as far as angle iron bender, except that angle iron which has just bent since being rolled, is bent and then clamped down on steel table so as to straighten it, i.e., it is not bent round a template.

axe aprander; a smith *q.v.* who receives steel blank which has been stamped out hot by drop hammer, and "aprends" or hammers out blade to shape on anvil or beneath pneumatic hammer.

axe forger, axle iron maker; a smith *q.v.* who usually a forge hammerman *q.v.* who forges axle from heated bar steel under a power hammer.

axe setter, axle straightener; a smith *q.v.* who welds two halves of coach or carriage axle together and makes whole axle straight by heating it, hammering it on flat steel table.

axe worker (perambulators); an Oliver man *q.v.* who forges axles of perambulators from steel bar.

back bender (shipbender); manipulates, by means of hammer, steel bar, rod, etc., under power hammer whilst forge hammerman *q.v.* holds forging tool on it on which power hammer descends; moves heated steel or iron about, according to forge hammerman's instructions; *cf.* inside make (engineering).

bar fixturer; bar former; shapes copper and brass bars cold on an anvil, by bending and hammering, for fitting together to form armatures, transformers, commutators, rotors and stators.

barrel forger; a forge hammerman *q.v.* who hammers steel ingot, from which central core has been removed on a lathe, under power hammer roughly into shape of inner tube of big gun; directs work of leveller, furnaceman, press driver and crane driver in manipulating ingot which may weigh 100 tons; directs play of water in and around tube to keep it cool; continues hammering and turning of ingot until it approximates to length and shape of big gun barrel, removes barrel to be heated in vertical furnace for purpose of tempering in oil bath.

barrel ribber (rifles, guns); a smith *q.v.* who forges by hand barrel ribber sporting guns or rifles.

barrel welder (twist); obsolete; a highly skilled smith who makes Demoussieu gun barrels used for sporting rifles; welds strips of iron and steel and binds together by rolling between rollers, using a wide hand tool; turns and works again on a mandrel in a lathe; beats again and completes welding on a former.

bar straightener (rolling mill); straightens bars of iron or steel which have been rolled, by heating them and hammering them over or beat parts on flat steel table.

beaking hammerman; a striker *q.v.* who forms flange on tyre of railway wheel, hammering steel on a beakiron or beaking arvil; assists tyre becker *q.v.* generally.

bender; axle; an axle forger *q.v.* who specialises in cranking or bending and welding of axles, *e.g.* for tub cars, mill shafts.

bender (bedstead); a smith *q.v.* who beats steel tubing in forge fire and bends it whilst hot to fit steel pattern, stripping it with cold, and fixing it with clamps to pattern till cold; places flattening tool (a large hammer with flat square head) on bends of tube and

causes striker *q.v.* to hit tool with sledge to keep tube flat and prevent bowing (rolling mill, safe, etc.); *see* plate bender.

bender, wheel spoke; a smith *q.v.* who operates a small press in which he squeezes rolled steel bars heated at middle point; moves lever, which causes press to force bar to V-shape thus forming spokes of wheel on to centre of which a hub is subsequently cast.

bill hook maker, bill maker; *claw* maker; a callery forger *q.v.* who forges bill hooks from bar or strip steel, bending them to shape whilst hot.

blacksmith, *see* smith; sometimes specifically designated, *e.g.*, locomotive blacksmith (railway).

blade forger; a smith *q.v.* who receives short strip of heated steel (specially made cutlery steel) from his striker *q.v.* and hammers it out under the aid of striker on anvil, roughly to shape of blade to be made.

body maker, safe; a plate bender *q.v.* who bends stout steel plates to shape of body of safe in a powerful hydraulic press, ready for welding; makes ends of same iron together, also welds steel tubes into boiler plates of water-tube or fire-tube boilers.

boiler welder and flanger; does work of flanger *q.v.* and welder *q.v.* on boiler plates and tubes.

bolster, bolster maker, bolster stamper (puffed blade); (i) (hand forging) a hand forger *q.v.* who works a bolster iron, out of which shoulders and tang of knife are shaped, on to hand-forged blade of knife; heats both blade and bolster iron and, with use of a flat and rapid blade of small hand hammer, shapes shoulders and welds two parts together; (ii) (drop stamping) a drop hammer smith *q.v.* who takes knife blade and bolster, which has been made in one piece by means of pneumatic hammer, and stamps out bolster into shape of shoulders of table or other knife.

bolt dresser; (i) a smith *q.v.* who finishes off machine-made bolts by hand forging, using a swage; (ii) an Oliver man *q.v.* who does similar work by means of Oliver hammer.

bolt maker (forged), boltsmith; machines off (machine-made) bolts by hand forging, using a swage; (ii) an Oliver man *q.v.* who does similar work by means of Oliver hammer.

bolt maker (forged), boltsmith; machines off (machine-made) bolts by hand forging, using a swage; (ii) an Oliver man *q.v.* who does similar work by means of Oliver hammer.

bolt maker (forged), boltsmith; machines off (machine-made) bolts by hand forging, using a swage; (ii) an Oliver man *q.v.* who does similar work by means of Oliver hammer.

bolt maker (forged), boltsmith; machines off (machine-made) bolts by hand forging, using a swage; (ii) an Oliver man *q.v.* who does similar work by means of Oliver hammer.

bolt maker (forged), boltsmith; machines off (machine-made) bolts by hand forging, using a swage; (ii) an Oliver man *q.v.* who does similar work by means of Oliver hammer.

bolt maker (forged), boltsmith; machines off (machine-made) bolts by hand forging, using a swage; (ii) an Oliver man *q.v.* who does similar work by means of Oliver hammer.

bolt maker (forged), boltsmith; machines off (machine-made) bolts by hand forging, using a swage; (ii) an Oliver man *q.v.* who does similar work by means of Oliver hammer.

boxed frame maker; hammers brass strip over a mould or template to required shape, fits on iron frame and crams (clips) together; often done by frame forger *q.v.*

centre glutter (wheel); *see* glutter.

chain joiner, chain joiner; joiner (chain); a welder *q.v.* who welds chain chain bar to shape by drop chains ready for welding, by link bender *q.v.*

chain maker, chain cable maker (iron and steel), chainmaker; cable maker, linkmaker; (i) (hand) a smith *q.v.* who forges chain and steel (dressed) to shape of chain link and welds ends to close link thus made; in case of large chains, is assisted by a striker *q.v.* who heats steel rod and helps at forging and welding; (ii) (machine) a forge hammerman *q.v.* who heats stout steel bars into form of link on swage block under steam hammer and welds ends and sometimes short cross bar in middle of link, and, in case of large chains, who forges links from heated steel bars by means of dies, i.e., welds chains; sometimes specifically designated, *e.g.* block chain maker, curb chain maker (dressed), dolled chain maker, hammered chain maker, scoring chain maker, steering chain maker, tanned chain maker, twist chain maker.

chain maker, dolled; roughly welds link (*see* hammered chain maker) omitting finishing blows; inserts end of roughly welded link into one die of dolly, which is a tool holding a pair of dies, which together correspond in shape to section of iron used for making the chain, lower half is stationary and upper half, which is hinged, is pushed up and down about one foot long, with top die first at end; brings top half down on it and smooths the end of link by striking several blows on iron bar, turning the link about so that each part of weld is strongly made and smoothly finished; for large sizes of dolled chain, is assisted by striker who holds top half of die and strikes the bar.

chain maker, hammered; a chain maker *q.v.* who makes chains, having hammered welds, entirely by hand; prepares iron or heated bars fire with bellows by means of long lever placed beneath left hand; takes a rod of iron (received in bundles, packed according to size) and heats end in fire; withdraws heated rod from fire and pushes end up against lighter end, piece of iron which has been "set" on block behind chisel, according to length of iron required to form the link; rests rod on chisel and hammers over this point, thus nicking the rod at point where it will be knotted off to form one link of chain; sets gauge by eye, to make correct number of links per foot required; hammers nicked iron roughly to shape of link on hooked end of anvil and hammers it with a blow of the hammer, at which point one end overlaps ends of rough link to form the weld; returns roughly shaped link to fire and heats for welding; welds link flat on anvil, not more than six blows usually required for commonest quality chain; for better class chain, goes round the weld again with lighter blows to make stronger and better finished weld; subsequent links are linked into the last after being roughly turned, measures chain to ensure that right number of links per foot is produced; if not quite correct, alters gauge.

chain maker, tanned; makes medium sized chain between large and small sized dolled chain; operates Tommy (Oliver machine) by a foot treadle instead of striking top arm of dolly; *cf.* dolled chain maker, cleek forger, cleek head maker (Scotland), shapes golf cleeks and similar iron heads from heated bar iron on anvil with hand hammer; forges neck of head and hammers out blade, following specifications as to size, angle, etc.

coachsmith; *iron forger*; a smith *g.v.* who forges by hand or under power hammer (drop hammer, steam hammer or small running hammer) iron work used in building railway or tramway coaches, motor vans, cars, etc., including work of angle iron smith *g.v.*; repairs, cleans and tempers coach springs, and welds axle ends (of cars) together.

coach spring forger; *coach spring machineman*, *as for spring smith* (Innsmouth springs).

collsmith; *are spiral spring smith*.
colt fork maker; a *forksmith* *g.v.* who forges by hand or under power bell-driven rapid spring hammer, shovel-shaped forks used in handling coal and coke breeze, picks out clumps in bar and draws out singly each prong to desired length, and bends to shape whilst still hot.

cutlery forger; a smith *g.v.* who forges out blades from heated steel bar for cutlery by hand forging or under a small rapid automatic hammer, or a drop forger *g.v.* who stamps out blades in dies from heated steel rod, bar, sheet or plate, sometimes specifically designated, *e.g.* *butcher's blade forger*, *chopper maker*, *cleaver maker*, *gait hook maker*, *harpoon maker*, *hatchet maker*, *matchet maker*, *resping hook maker*, *sickle maker*, *cutlery*, *horse nail*, *as for Oliver man*.

cutler-out (*spade and shovel*); a drop forger *g.v.* who cuts out metal part of spades and shovels from heated steel sheet by a die forging machine.

cyclesmith; a smith *g.v.* who makes parts of cycles by forging, welding, etc., by hand, or more usually by means of drop forge, *are drop forger*.

die maker; *are bill block maker*; *die forger*; a smith *g.v.* who makes by hand, out of special steel, dies which are to be used for drop forging or stamping machines; when die is made, heats it to correct temperature and quenches it in water or oil to harden surface.

die stripper, *die stripping machinist*; a drop hammer smith *g.v.* who knocks off, or "strips" the fins (excess metal) from drop stampings, made by another drop hammer smith, by placing forgings on die which is pierced throughout a whole block, moves lever causing hammer to descend and strike forging so that it is knocked right through die, leaving fins of metal held in block; usually done by the forger *g.v.* **dolly maker**; a tool maker *g.v.* who forges (*are forger*) dollies, *i.e.* steel tools held under rivets during riveting process.

draw; a smith *g.v.* who draws, *i.e.* beats out, strips of heated iron or steel by hand or under an automatic hammer to make them thinner and longer.

dresser (*bolts, nuts, etc.*); a smith *g.v.* who hammers with hammer and forge tools on anvil drop-forged nuts, heads of bolts, etc., to give them a better finish for high-class work, usually done by Oliver man *g.v.*

dresser; *puddler's feedman*; a smith *g.v.* who tempers the hammer on anvil puddler's tuble after use in raking fire up into balls by puddler.

drill sharpener (*name or quarry*); a general smith *g.v.* who sharpens drills by hammering out on anvil fresh points; hardens points by quenching in water or oil.

driver; a smith *g.v.* who drives a hole in head of anvil to form loop, using a punch (or drift) or *are* **drift**; a drop forger; drop hammerman, drop hammer smith, drop stamp forger, *flue-out*; bolts two halves of steel dies to steel table and under drop hammer, adjusting dies so that when hammer falls on table, two halves of die exactly coincide; receives heated bar of iron or steel from heater *g.v.* and holds it with tongs, firmly on lower die, pulls or pushes which causes drop hammer to descend and stamp out hot metal into shape of die, pulls lever again to raise hammer

and, with tongs, takes out the forging from die; drop forging is carried on when large numbers of small forgings of same shape are required, *e.g.*, parts of guns.

drop forge worker; general term for any man engaged in making drop forgings in a drop forge works, or assisting drop forger *g.v.* to do so; includes Bradley hammer smith, cutler-out (*spade and shovel*), die stripper, die stripping machinist, drop forger, drop stamp hammer, driver, edge tool stamper, flye maker, goffed blade stamper, gun action forger, moulder (*goffed blade*), addwork forger, Oliver man, Oliver smith, Oliver assistant, Oliver hammerman, pocket blade flue-out, pocket blade forger, razor forger, roving flyer maker, shell stamper, wrist maker, spur forger, stamp, steel toy maker, table blade stamper *g.v.*

drop hammer assistant; *see drop stamp driver*.

drop hammerman, **drop hammer smith**; *are drop forger*.
drop stamp driver, **drop stamp hammer driver**; drop hammer smith; out; assists drop forger *g.v.* by pulling lever which causes hammer, to lower side of which a die is bolted, to descend vertically on table of drop forger; also brings heated bar from forge or furnace to drop forger *g.v.*

drop stamp forger; *see drop forger*.
drummer (*Birmingham and S. Wales*); *are striker*.

edge tool stamper, *as for drop forger*.
engine smith; a smith *g.v.* and sometimes an angle iron smith *g.v.* employed in forging by hand or machine, and welding, when necessary, parts of locomotive or stationary engines, work which is of heaviest kind and is usually done by a large hammerman *g.v.* or in case of repetitive forging of small parts may be done by drop forger *g.v.*

engine tool smith, *as for toolsmith*.
farrier; *horse shoe, shoeing smith*; shoe horses, mules, donkeys; cuts hoof to shape, nails on iron shoe and shapes points of nails over that may protrude; may also make horse's strip wrought iron working as a smith (*hand*) *g.v.* with hammer on an anvil, and if using ready made shoes, may adjust them, by heating in forge and hammering, to fit foot; may possess skill in treatment of ailments of horse's feet; in small country farrieries, frequently combines occupation of farrier with that of wheelwright (473) *g.v.* and general smith *g.v.* repairs agricultural machines and implements.

file forger, **file maker**, **file smith**; (i) a smith *g.v.* who rapidly beats out heated strip, of steel or wrought iron, into form of file, using a rapid hammer; (ii) *are* **file maker**; *are* **file smith**; a smith *g.v.* who beats, cuts and welds hot angle iron to shape of frame of file box of horsehoof.

flange maker; a large pressman *g.v.* who, by means of dies bolted to bed plate and head of powerful hydraulic press, presses out flanges from heated plates of steel which he holds by means of tongs under press; is assisted by press driver *g.v.*

fitter's pressman; a pressman *g.v.* who operates a small forcing power press to modify machine parts under instruction of fitter (210) *g.v.*
flange maker (*beams, tubes*); *are* **flange smith**; a large pressman *g.v.* who places by means of tongs, a tube (or beam or angle iron girder) one end of which has been heated in large fire, into press and moves lever which drives down press, carrying the die which slowly forces out end of tube (or beam) into shape of flange; raises

press and removes tube (or beam) to cool, or sends back to furnace for heating of other end.

flanger; (i) (*hand*) a smith *g.v.* who hammers over edge of heated plate or heated end of tube to form a flange; (ii) *are* **flange smith**; (iii) *are* **flange maker** (*beams, tubes*).

flange welder, **flange welder-on**; *are* **flanging smith**; a smith *g.v.* who specialises in welding flanges on to tubes or other iron or steel articles; receives from striker *g.v.* a piece, heated at end, and whole of flange at welding heat, cleans surfaces to be welded by scraping off scale, ash, etc.; adds a flux (*borax powder*) and by means of tongs holds tube and flange in position as, beam of anvil whilst striker hammers two together causing them to weld.

flanging machinist; *are* **flanging press attendant**.

flanging press attendant; *are* **flanging smith**; a large pressman *g.v.* who operates heavy hydraulic press which he causes to bring down die on to end or side of heated steel tube, or plate, etc., causing edge of same to turn over and form a flange.

flanging smith; (i) *are* **flange welder**; (ii) *are* **flanging press attendant**; (iii) *are* **flange maker** (*beams, tubes*).

flanging smith's striker; a striker *g.v.* who assists flange welder *g.v.* by holding tube or other iron or steel article to be flanged, and flange in position as, beam of anvil, and strikes them, when ready, with sledge causing them to weld again.

flue-out; *see drop forger*.

flye maker; *fly forger*, *fly maker*, a drop forger *g.v.* who accepts one part of flywheel for textile spinning machinery; work may be sectionalised and performed by following persons:—flye logger, flye logger, flye presser forger *g.v.*, flye rougher-out, flye smoother.

fly forger, **fly maker**; *see flye maker*.

forge assistant, **forge helper**; general terms covering any man or boy engaged in forge assisting smith, forge hammerman, drop forger or forge pressman *g.v.*; may be engaged in (a) tending power hammer or (b) using the lever operating same under instructions from smith, etc., (c) heating bars, rods, etc., of iron or steel in forge fire, (d) bringing bars, or rods when heated from fire to anvil on power hammer, by hand, using tongs, or, if large, standing bar or billet to hand or power crane, for transference from forge fire to steam hammer, (e) as his driver *g.v.*, (f) as *striker* *g.v.*, (g) as *draw* *g.v.*, (h) as *draw* *g.v.*, (i) as *draw* *g.v.*, (j) as *draw* *g.v.*, (k) as *draw* *g.v.*, (l) as *draw* *g.v.*, (m) as *draw* *g.v.*, (n) as *draw* *g.v.*, (o) as *draw* *g.v.*, (p) as *draw* *g.v.*, (q) as *draw* *g.v.*, (r) as *draw* *g.v.*, (s) as *draw* *g.v.*, (t) as *draw* *g.v.*, (u) as *draw* *g.v.*, (v) as *draw* *g.v.*, (w) as *draw* *g.v.*, (x) as *draw* *g.v.*, (y) as *draw* *g.v.*, (z) as *draw* *g.v.*

forge hammerman; *are* **forger**; a smith *g.v.* who forges articles of iron or steel under power hammer, hydraulic, steam, electric, pneumatic or drop; receives heated steel bar, etc., from large fire in which one of his assistants (*or* "anvil") has heated it to forging temperature, holds metal and power hammer by means of tongs, and instructs hammer driver *g.v.* as to the kind of blow to be delivered (light, heavy, etc.); in special forging tools have to be used, *e.g.* *Barrett*, *are* **barrett**, *are* **barrett**, holds these tools on heated metal bar and has an impulse made *g.v.* to hold steel in position for him; instructs inside mate as to moving about of forging, but when special work is to be done, takes over power hammer and moving forging under hammer until it is completed; is responsible

for seeing that metal is heated to correct temperature, and forge furnaceman (171) *q.v.*, where employed, as responsible to him.

forgerman; (i) general term for any skilled man employed in a forge in which forging is done by means of power hammers, usually steam hammers; (ii) *see* **forge hammerman**; usually specifically designated, *e.g.*, **steel forgerman** (in charge of large forging shop), **round forgerman** (supervises heating and transport of metal); **forgerman** without qualification, usually means **first forgerman**, sometimes specifically designated according to article being forged, *e.g.*, **another forgerman**, **hook forgerman**, **reaping hook forgerman**, **scylo forgerman**, or according to kind of forge, *e.g.* **hydraulic forgerman**.

forge pressman; **steel presser**, **steel pressman**; in charge of heavy hydraulic press which carries die which pressman bolts into position; supervises heating of iron or steel bar, etc., and places it by crane and hence brings under press, which he instructs from driver *q.v.* to actuate, bringing down die on to hot metal, thus shaping it.

forger (hand or power); general term for any man who shapes hot metal on anvil with sledge or hammer (*see* **drop hammer**) under drop hammer (*see* **drop hammer forger**) or under steam, pneumatic, or automatic hammer; term is frequently a synonym of **smith**, but has a more particular application to manufacturing of tools, as it is not often used alone but usually specifically designated, *e.g.*, **action forger** (*gun action*), **navy forger**, **axe forger**, **bayonet blade forger**, **bayonet forger**, **beam forger** (scale beam), **bit forger** (harness), **blade forger**, **blade hand forger**, **blade power forger**, **blade steam forger**, **bolt forger**, **bolt machine forger**, **bucket forger**, **butcher blade forger**, **cart gear forger**, **curb bit forger** (harness), **cutlery forger**, **edge tool forger**, **hoon forger** (surgical instrument), **iron forger**, **flyer forger** (textile machinery), **fy forger** *q.v.*, **fork forger**, **furniture forger** (*gun making*), **ginslet forger**, **golf club forger**, **gun action forger**, **gun furniture forger**, **gun lock forger**, **gun work forger**, **hame forger** (harness), **hammer forger**, **hammer forger** (guns), **hand forger** (cutlery), **harness hame forger**, **hoe forger**, **horse nail forger**, **ingot forger** *q.v.*, **iron forger** *q.v.*, **iron harness forger**, **key forger**, **knife forger** (for cutlery), **lance forger**, **machine bolt forger** (machine coupling), **machine knife forger** (*i.e.* **forger machine knife**), **magnet forger**, **mounting forger** *q.v.*, **odderork forger** (iron hollowware) *q.v.*, **palette knife blade forger**, **pocket blade drop forger** (cutlery), **pocket blade forger** (cutlery), **prussic acid forger**, **rasp forger**, **razor forger**, **ring forger** (textile machinery) *q.v.*, **scale beam forger**, **scissors forger**, **scylo forger**, **shockle forger** *q.v.*, **shot forger** (scissors) *q.v.*, **shuttle spring forger**, **shuttle tip forger**, **spade and shovel forger**, **spooner forger**, **spike forger**, **spring forger**, **spring bar forger**, **spur forger**, **steel component forger** (eyebolt), **stiletto forger**, **stirrup forger**, **sword blade forger**, **table blade forger** *q.v.*, **tool forger**, **vise forger**, **wrench forger**.

fork drawer, **fork moulder**, **forksmith** (agricultural, etc. forks); a smith *q.v.*, or a **forge hammerman** *q.v.*, who forges garden, etc. forks by hand or with steam hammer, roughly cuts out blank from heated plate and then cuts out triangular pieces between prongs; splits open triangular holes in each fork, and draws out by forging each separate prong to suitable length and then roughly points each prong.

forksmith (cycles); a smith *q.v.* who welds strips of steel into end of steel tube and cold presses it to shape in

hand press; when drilled in machine shop, welds two tubes to fork head.

fork splitter (agricultural, etc. forks); a smith *q.v.* who cuts out triangular spaces between prongs of fork by causing striker *q.v.* to hammer sharp cutting tool which he holds, by means of tongs, on heated plate of metal; usually done by **forksmith** *q.v.*

fork strap maker (garden forks); a smith *q.v.* who forges, by hand, tang of garden fork into form of straps into which handle of fork is to be fastened.

framesmith; an angle iron smith *q.v.* who, by bending and welding angle iron, makes framework of boilers, buildings, tanks, etc.

fract saw maker, **fract nail maker**, **fract screw maker**, **fract stud maker**; an Oliver man *q.v.* who forges fract nails from iron or steel rod.

geff hook maker; a smith *q.v.* who forges from steel rod, by hand, geff hooks or harpoons.

general smith; a smith *q.v.* who is skilled in repair of machinery of any special kind, or of every general kind; is usually attached to manufacturing works, colliery, etc., for repair of any broken parts of machinery or plant; is sometimes also a **farrier** *q.v.* who acts as **tyresmith** and **coachsmith** in villages or small towns.

glutter, **wheel glutter**; **dozer**, **centre glutter**, *see*; a smith *q.v.* who fits up small gage wheels. Functions of wheel, after wheel boss has been cast on in foundry, by hammering rod hot steel bar into interstices between sections, whilst wheel is firmly fixed in vice; is assisted by **striker** *q.v.* who beats steel bar and does some of the hammering; after glutting, wheel is ready for shrink in on of tyre.

guffed blade stamper, **guffer**; a drop forger *q.v.* who stamps out cold blades by means of dies from heated steel sheet, rod bar or plate, sometimes specifically designated, *e.g.*, **pocket blade guffer**.

gun action forger; a smith *q.v.* or more frequently, a drop forger *q.v.* who stamps out parts of gun actions by means of dies; in specially delicate and expensive work, may do forging from heated steel rod or bar by hand.

gun lock forger, *see* **gun action forger**.

gun work forger; may be either a **gun action forger** or a **gun lock forger** *q.v.*

hammer attendant, **hammer driver**, **force hammer driver**, **hammerman** (*steel forger*); **seats force hammerman** *q.v.* by operating power hammer in force; moves lever which can hammer to descend or rise in accordance with verbal instructions of force hammerman, or feeding, or on feeding tool which force hammerman holds on forging, thus shaping it as required; when not engaged on power hammer, assists force hammerman generally.

hammerer, **carriage** (textile); a **striker** *q.v.* who assists smith in forging parts of carriages for textile spinning machinery.

hammerman (*Scottish*); *see* **striker**; also applied to men who do hand hammering on forging held in position on anvil of steam hammer by hammer itself, *i.e.* steam hammer is used as a vice; sometimes specifically designated, *e.g.*, **axe hammerman**, **beaking hammerman** *q.v.*, **blacksmith's hammerman**, **blade hammerman** (machine knife), **pneumatic hammerman** *q.v.*, **smith's hammerman**, **tyre hammerman**.

hand forge smith; a smith *q.v.* who forges iron or steel articles by hand, as distinct from machine forger; is usually assisted by a **striker** *q.v.*

horse shoe maker; a smith *q.v.* or a drop forger *q.v.* who makes horse-shoes by hand or drop forging from wrought iron strip or plate, or shapes horse-shoes from wrought iron strip in a special combined bending and rolling machine.

horse shoer, *see* **farrier**.

hot presser; bolts dies to press head and bottom plate of hydraulic press, holds in hot bar, sheet, etc., with tongs on lower die and gives signal to press driver *q.v.* to move lever bringing down upper half of die thus pressing out bottom; removes forging from die when press-head is raised; work is of smaller nature than that of **forge pressman** *q.v.*

hot straightener, **straightener**; (i) a hot smith *q.v.* who straightens axes, bars, angle iron, or other iron or steel goods, by heating them in forge fire and causing striker *q.v.* to hit them at suitable points on flat steel table, till buckle has been removed, then held in flatter or hammer with a large flat-faced hammer head) on forging and cause striker to hit this with sledge, to straighten out bends; (ii) straightens heavy bars, rods, angle iron, etc., whilst hot, by pressing under steam hammer or (see **forge hammerman**) or hydraulic press (*see* **forge pressman**).

hubber; a **forge pressman** *q.v.* who presses a relief steel die into heated steel block, leaving an impression which forms matrix for die stamping; process termed "hubbing".

hydraulic pressman (*Scientific Marling*); a **forge hammerman** *q.v.* who manipulates steel ingot under hydraulic press to improve grain and texture of steel prior to rolling, and may also roughly forge it to shape suitable for rolling.

hydraulic press smith; (i) a **forge hammerman** *q.v.* who forges iron or steel under hydraulic press; (ii) a drop forger *q.v.* who uses a hydraulic press to obtain forging from large dies, too large to be stamped on ordinary drop forge.

hydraulic press worker; general term for any man engaged on forging by means of hydraulic press; is frequently applied to assistants of hydraulic press smith *q.v.*; helps in bringing heated billets or bar of steel from furnace or forge to press, holds it firmly with tongs whilst forging is in operation, turns or moves it as required, attaches it to and detaches it from crane according to smith's instructions; may operate press itself by moving levers admitting water power to press, raising or lowering it as required.

ingot forger; a **forge hammerman** *q.v.* who forges steel ingot under steam hammer roughly into shape of forging required for large axes, crankshafts, stern frames, etc., or into bar, ready for rolling in preparation of steel or sheet. Inside mate (*engineering*); when not required to hold work under power hammer, resumes duties as **striker**, assisting **forge hammerman** generally from forger; (i) *see* **forger**; (ii) *see* **coachsmith**.

iron straightener, **iron stretcher**; general term for smiths who specialise in straightening iron or steel articles, rods, bars, angle iron, etc., including angle iron straightener, bar straightener, hot straightener, plate straightener (278) *q.v.*

joiner (chains), *see* **chain joiner**. **laminated spring maker**, *see* **spring smith** (laminated springs). **leverman** (steel forger); (i) *see* **hammer attendant**; (ii) *see* **press driver**.

lift driver; attends to crane, either by hand or steam, which is used to carry heavy forgings from forge furnace to power hammer and back as required, and to hold forging whilst under power hammer; assists in moving and turning forging under hammer by raising and lowering it

according to forge hammerman's instructions; exercises great care to ensure that forging is firmly held on table of power hammer, as blow of hammer on ill-balanced forging would bring down crane and tend to wreck whole forge; may also manipulate lever controlling rise and fall of hammer.

lighter (files); a smith, q.v. who files in an anvil after they have been annealed.

link bander (chain); a chainsmith, q.v. who heats rod or bar of wrought iron, or steel in forge, places it in die under steam hammer, or on swage block; moves lever actuating press or hammer, thus squeezing strip of metal into shape of link ready for final welding.

linksmith, see chain maker.

machine bolt forger, see boltmaker (forged).

machine forger; (i) screws suitable tools or "heads" on to special forging machine which has from two to six arms or slides; on moving lever to do so, move to a central point bringing all tools together and leaving small space between them which is to be occupied by heated metal rod, bar, plate, etc.; receives heated metal from assistant and places it, using tongs, against one of tools or dies; pulls lever causing other tools to move closer towards heated metal and press it between them into required shape; moves lever again, causing tools to withdraw, and remove forging with tongs, placing it on one side to cool; (ii) see drop forger.

machine knife and section swager; a smith, q.v. who hammers out roughly to shape machine knives and sections by hand from heated steel bar, or by means of automatic hammer; in latter process, holds piece of metal between tongs and passes it back and forth under rapidly moving small automatic hammer, which is actuated by placing his foot on a lever.

machine knife smith, machine knife smith; section smith (machine knife); a smith, q.v. who hammers machine knife blade after tempering, to make it straight or curved as required, and again (if necessary) after grinding.

machine nut maker, see nut cutter.

machine smith; (i) a smith, q.v. who makes forgings for subsequent machining into parts of machines; (ii) a drop forger, q.v. who makes large number of similar articles on machine designed for repetition work, popularly termed mechanical blacksmith.

wooder (gouged tools); a drop forger, q.v. who blanks out by means of dies roughly shaped forgings of cutlery blades ready for final forging by hand or automatic hammer.

motor smith; a smith, q.v. who forges parts of motors for subsequent machining, or who welds broken parts of motors in a large garage.

round squeezer; a smith, q.v. who welds heated tang on to cutlery blades by squeezing them together in a mould with flux.

round steeler (edge tools); a smith, q.v. who welds on a hard steel cutting edge on back plate of iron or cheaper steel; may weld plate of hard steel of iron and steel together ready for subsequent forming, by toolsmith, q.v., into edge tools.

mounting forger, see oddwork forger.

nail maker (forged); an Oliver man, q.v. who makes nails from iron rod; cuts off heated lengths of rod after making point with hot steel bar hammer; inserts heated length in hole in anvil and brings down Oliver hammer to form head of nail.

nut cutter, nut forger; machine nut maker; a machine forger, q.v. who places heated steel plate between anvil and nut forging machine and presses lever with hand or foot,

causing specially shaped tools or dies to squeeze or stamp heated bar into shape of nut.

oddwork forger; mounting forger; a smith, q.v. or a drop forger, q.v. who forges fittings for boiler work.

Oliver assistant, Oliver hammerman, Oliver jumper; an assistant to an Oliver man, q.v. who beats up bars, rods, etc., of iron or steel in forge furnace, and passes them to Oliver man, and then he takes him to stamps out die forging on Oliver machine by kicking foot lever which actuates drop hammer.

Oliver man, Oliver smith; a drop forger, q.v. who operates special forging stamp called an "Oliver", fixes upper and lower dies and controls hammer by kick lever or by directing assistant to actuate lever, removes forging and receives fresh bar of heated iron or steel from assistant, Oliver jumper, q.v. sometimes specifically designated, e.g. horse nail Oliver man.

pansmith (salt works), salt pansmith; a general smith, q.v. who does forging work required to keep in repair evaporating plant in salt works consisting mainly of large steel pans in which brine is evaporated; bolts and welds steel plates together to form pans, and repairs pan by welding on fresh plates.

perambulator file smith, perambulator smith; undercarriage maker; a smith, q.v. who bends to shape and welds as required, iron rod, tube and strip for parts of undercarriage of perambulators, malicars, etc.

permanent way smith; a smith, q.v. who resharpen and repairs plate-layers' tools, e.g., crowbars, picks, jim-crowes, usually by hand forging.

pick dresser, see picksmith.

pick repairer, pick sharpener, pick sharper; a smith, q.v. who sharpens picks of mines, quarries, road repairers, etc., by hand forging fresh points on ends of old heated ends in order to harden them for use.

picksmith; (i) see pick stamper; (ii) pick dresser; a smith, q.v. who forges heads of picks by hand from heated steel bar.

pick stamper, picksmith; a drop forger, q.v. who stamps out heads of picks from hot steel bar by means of dies; quenches pick heads in water to temper them for use.

pipe welder; a smith or welder, q.v. who joins together edges of steel plate which has been bent round in form of pipe; obsolete; cf. welder (249).

plate bender (plate mill, or boiler making); bender (rolling mill, etc.); bends steel plate to required curvature for making boilers or for shipbuilding, by heating in furnace and placing it, by means of travelling crane on rolls of plate bending machine, guides plate on to rolls so that it rests on two lower rolls and is beneath centrally fixed upper roll; screws down upper roll till it holds plate tightly and bends it slightly forcing plate down between the two lower rolls; moves lever imparting rotary motion to roll causing plate to be rolled between them and then bent over all its length; increases curvature of plate by screwing down upper roll as required, and attaches plate to crane for removal when sufficient.

plater (cutlery, etc., forging); a smith, q.v. who hammers out to shape of cutlery blade, heated bar or rod of steel using a hand or belt-driven hammer, sometimes specifically designated, e.g. edge tool plater, box plater, acylite plater, shovel plater; (ii) see setter.

plate smith; a smith, q.v. who is engaged in bending, straightening, or welding iron or steel plates.

pneumatic hammer driver, pneumatic hammer man, pneumatic hammer smith; gun-powder worker; a smith, q.v. who forges small articles from mass of a small lump of saw hammer; receives heated pieces of steel bar, rod, etc., from bender, q.v.,

and moves them about under continuously striking hammer on small steel table, using tongs to hold and manipulate heated metal; continues till metal is forged to required shape.

pocket blade fier-out, pocket blade forger; (i) a drop forger, q.v. who stamps out blanks of blades for pocket knives; (ii) a smith, q.v. who forges from heated strip steel, blades of pocket knives by hand forging; almost obsolete.

gun-powder worker, see pneumatic hammer driver.

pot welder; a welder, q.v. who fuses iron handles on iron pots.

press driver, press driver man, press hand, pressman, press operator; leverman (steel forge), smith's pressman; controls lever which applies power (hydraulic, steam, electric, etc.) to forging press, receiving instructions from assistant, q.v.; in case of small forging presses, may do both forging and operate lever of press; sometimes specifically designated, e.g. wheel press operator.

presser (rolling mill); a large pressman, q.v. who is in charge of powerful hydraulic press under which he presses steel plates to improve grain of steel, or by means of which he shapes them to form of railway sleepers, etc., or cuts them into smaller plates using special cutting tool; bolts steel die to under side of press-head and sets lower die in bed plate of press, sometimes specifically designated, e.g. sleeper mill presser.

poddler (steel forge); a presser.

poaching hammerman; a forge hammerman, q.v. who reduces steel ingots to shape suitable for subsequent forging into railway wheels, using heavy punch, fixed on steam hammer head, which punches central hole in wheel for axle.

quarry smith; a general smith, q.v. employed in a quarry; does smith's work on repairs to plant and does smith's work in keeping shovels, shovels, and other tools sharp and otherwise fit for use.

railway spring maker, see spring smith (laminated springs).

razor maker; a smith, q.v. who cuts off length of special strip or bar steel, and when heated, forges it roughly to shape of razor under a rapid running (bell) hammer; cuts off razor to required length and forges point on finely tapered blade; welds on wrought iron tang or forges steel tang to shape ready for fitting into razor handle. may also attach hilt and hand guard to razor.

razor forger; a drop forger, q.v. who stamps out by means of dies, from heated steel bar, blanks of shape of razor blades ready for razor blade grinder (237) and forgers, who by plunging them into cold water or oil.

reducer (bolts); a smith, q.v. who by squeezing reduces thickness of end of bolt that is to be threaded for purpose of screwing on nut; may be done by hand or by Oliver man, q.v. on a rivet machine.

rich forger (run); a smith, q.v. who welds steel rim on sides of gun barrel so that, when barrel recoils, rim runs in slides and subsequently ensure that barrel comes back into original position.

roller, roller maker; a file forger, q.v. who makes several concave forgings for files, called rollers.

rim welder (motor); wheel welder; a welder, q.v. who joins together ends of strips of steel that has been bent round in heavy hydraulic press to form rim of motor wheel.

roving spar maker; a drop forger, q.v. who stamps out steel rod flyers for textile roving frames, by means of dies.

saw file forger, see file forger.

saw tang maker; a hot presser, q.v. who operates small press in which he presses small heated strips of saw ready for poaching and riveting on to saw handle.

scale smith; weighing machine smith; a smith *q.v.* who forges parts of scales by hand or by drop forging; *see* drop forger; repairs scales as required by weighing, bending or remaking broken parts.

scale stamper (cutlery); a stamper *q.v.* who stamps out from heated metal plate or sheet, scales which are to be riveted to the sides of cutlery blades to form metal handled knives, pocket knives, etc.

scissors forger, scissors smith; a smith *q.v.* who makes scissor blades by hand forging or drop forging; may also weld rivet to one side, and screw other side on to it; afterwards have been ground, reheats them and tempers them by plunging in water.

scythe back bender, scythe back maker; a smith *q.v.* who forges to shape, steel bar used to stiffen back of scythe blade.

scythe finisher; a smith *q.v.* who hammers forged scythes to shape, hammers out tang and thickens back of scythe by hammering; marks scythe with trade mark using die and hammer.

scythe forger; a cutlery forger *q.v.* who forges blade of scythe to shape from a strip of heated steel or from composite bar of iron and steel previously welded together, under a rapid (belt) hammer; pattern forged blank on for finishing, grinding, etc. *see* forger, *as for die forger.*

section smith (machine knife); *see* machine knife smith.

setter (cutlery); *plater (cutlery, etc., forger), smith (cutlery);* sets and straightens cutlery blades by bending them between two upright steel pillars on an anvil, using a hammer if necessary; hardens and tempers them by heating in fire and cooling in water and oil respectively; sometimes also marks shoulder of blade with trade and other symbols by use of hammer and steel dies.

shackle forger, shackle smith; a chainsmith *q.v.* who forges shackles from iron or steel rod or bar by hand or power hammer.

shinkee (scissors and hand shears), *see* shot forger.

sharpen, gear; tool sharpeners; a general smith *q.v.* who repairs, by forging processes, points and cutting edges of tools, *e.g.*, points on knives or navies' gear or tools, picks, drills, automatic coal cutters, etc.

shell stamper; a drop forger *q.v.* who stamps out parts of shells, steel nose caps, etc., by means of dies.

shingler (forging); roughly hammers heavy forgings into shape under power hammer, assisted by hammer driver *q.v.* to get them ready for forger hammerman *q.v.*

ship blacksmith, shipsmith; a smith *q.v.* or forger hammerman *q.v.* employed in a shipyard who forges by hand or power hammer, frames, etc., of ships, assisted by group of strikers, hammer drivers and labourers who manipulate forging under shipsmith's direction.

ship packing maker; tapered packing drawer; a forger hammerman *q.v.* who forges metal packing to correct shape for use in packing space between ship-frame and plates where necessary.

shipsmith's striker, *see* forger.

ship thimble maker, thimble maker; a smith *q.v.* or a drop forger *q.v.* who makes metal eyelet (called a ship's thimble) round rim of which rope is spliced so that eyelet forms end of rope which is thus easily attachable to a hook or another rope by means of eyelet.

shoeing smith, *see* farrier.
shot forger; shanker (scissors); a smith *q.v.* who welds strip of iron on to steel hand-forged scissor blade, and forges it to shape of shank and bows of scissors; in drop-forged scissors, blade, shank and bows are forged in one piece of steel.

shovel plate; a smith *q.v.* who forges, by hand or power hammer, block of heated steel into shape of shovel.

sickle back maker, *see* forger
sickle back bender; (i) bends sickle blank to right curvature by hand whilst hot, round template, using tongs, and clamps firmly to cool; (ii) sets gauges in roller bending machine, inserts sickle blank either hot or cold, and controls bending operation by means of levers.

signal smith; a smith *q.v.* who is responsible for maintenance of signal wires and rodding, point and crossing rodding and locking frames; makes small adjustments, repairs or replaces bent or broken rods and cleans and oils joints in signal and point apparatus; does repairs to broken bent rods, etc.; works in railway shops, not on permanent way; *cf.* signal lineman (293).

sniffle man; a general smith *q.v.* in a colliery.

smith; blacksmith; general term for any man engaged in heating iron or steel bars, rods, plates, etc., in small furnace (forge) to a white heat and shaping it by hammering on an anvil or other metal block; work may be done by hand, by hand operated machine or by power machine, according to size of job and whether a special order or repetition work; may perform any of the following operations: (i) fullering or swaging, *i.e.*, reducing size of rod, bar, etc., by means of hand hammering on special swage tool on hot bar; (ii) upsetting, *i.e.*, hammering on end of heated bar to cause it to increase in width, or by allowing heated bar to drop from a height on to steel block; (iii) bending, either by hammering bar, etc., which is heated at point where it is to bend, on an anvil, or by levering it round a fulcrum; it is usually necessary to upset a bar or rod, before bending to avoid making bend thinner than rest of metal; (iv) raising, *i.e.*, welder; (v) punching, *i.e.*, driving a pointed steel punch through heated bar, plate, etc., so that hot metal is forced aside, or by driving a larger sharp-edged punch through metal so driving piece of metal before punch is driven right out of edges of metal; (vi) cutting off, *i.e.*, hammering sharpened tool on heated bar, plate, etc., to cut it off at that point; smith may also forge metal by hammering directly on to heated part without use of special tools mentioned above, assisted or not by striker *q.v.* according to size of job; smith is usually assisted by hammerman or striker *q.v.* who hammers on heated metal or tool held on it by smith himself; *cf.* forger; sometimes specifically designated, *e.g.*, agricultural machine knife smith, anvil smith, angle iron smith, anglemill, anvil smith, axle box smith, axle smith, blade smith (cutlery), boilersmith, boltsmith, Bradley hammer smith, bull, dozer smith, carriage smith, chain-smith, coach smith, spring smith, coil smith, crosscutsmith, drop hammer smith, engine smith, engine tool smith, file smith, firebox framesmith, firebox smith, fangsmith, fork-smith (cycles), foundry smith, frame-smith, general smith, hand forge smith, iron smith (reaping hooks), iron wheel smith, link smith (chain making), machine knife smith, machine smith, motor smith, Oliver smith, passmith, perambulator (faro) smith, pick hammer smith, plate smith, pneumatic hammer smith, poddler's tool smith, quarry smith, rasp smith, reaping becomsmith, saw passmith, scale smith, scissor smith, scythe smith, section smith (machine knife), shackle smith, ship blacksmith, ship-smith, ship tool-smith, shoeing smith, spiral spring smith, spring hammer-smith, spring smith, stamp smith

steam hammer smith, steel frame smith (shipbuilding), steel hammer-smith, tool-smith, turner smith, clock smith, tyre smith, wagon smith (railway wagon), wagon spring smith, wheel-smith.

smith (cutlery), *see* setter (cutlery).

smith (shoes); a smith *q.v.* who trues shoes after receiving by hammering them flat on anvil by hand.

smith's finisher; (i) a forger helper *q.v.* who finishes off rough forgings either by hand filing or on emery wheel; (ii) a smith *q.v.*, assembling and fitting up general smith's work.

smith's fitter, smith's work fitter; erects fittings for buildings made by smith *q.v.*

smith's hammerman, *see* striker.

smith's pressman, *see* press driver.

sockets maker; a drop forger *q.v.* or Oliver man *q.v.*, who forges sockets for welding on pipes and tubes.

sockets welder; a smith *q.v.* who specialises in welding sockets on ends of tubes, by hand hammering heated socket on heated end of tube.

sparrow hill maker, *see* wrought nail maker.

spiral spring smith; coil-smith, spring smith (spiral spring); (i) a spring smith *q.v.* who makes spiral springs by winding heated iron or steel wire or rods round circular metal core by means of hammer and tongs; (ii) drags heated metal from furnace with tongs and fits it in grips of power driven mandrel; sets mandrel in motion and allows coiled metal to cool gradually whilst clamped in position.

spring bar and swirl maker; a smith *q.v.* or a drop forger *q.v.* who forges spring bars and swirls for harness making.

spring hammer smith; a smith *q.v.* who operates a spring hammer, *i.e.*, a belt driven hammer used for light and heavy spring and having a laminated spring either over shock preventing device between hammer and source of power.

spring smith; (laminated spring), laminated spring maker, railway spring maker; receives strips of tough steel of graduated lengths and smooths off shape; seats them in fire of forge and bends them to spring shape on metal template, clamping them into position and leaving them to cool; hammers heated ends of springs to taper them off, and by means of punch, hammers two notches on each end of spring lever, so that notches can be hooked with bumps (which are undersides of notches) in next layer, thus helping to strengthen spring; fastens series of layers together by suitable bolts, and welds on to each end of spring, a steel nut by which spring is subsequently attached.

spring smith, *see* coil-smith, sometimes specifically designated, *e.g.*, wagon spring smith.

spur forger, spurrier; a drop forger *q.v.* shaping spurs, or, a smith *q.v.* who makes spurs by hand; *see* shoelet; spurs are mostly cast in malleable iron or nickel.

stamper, drop stamper, hot drop stamper, set stamper; stamp smith; general term for man employed in stamping out articles from hot iron or steel rod, bar, sheet or plate by means of dies; may be a drop forger, Oliver man, fly pressman, forger forging stamp; work done, *as for* drop forger; sometimes specifically designated, *e.g.*, bolster stamper (knife), edge tool stamper, hammer stamper, handle stamper (cutlery), heavy edge tool stamper, shoe stamper, horse shoe stamper, stamper, ring stamper, scale stamper, shell stamper, spade stamper, stamper (iron and steel stamping and drop forging), stamper (iron tube fittings), stamper (rolling

mill, stamper (smithy), stamper (steel tube sockets), table blade stamper, tyre stamper, wheel stamper.

stamper smith, see stamper.

staple maker; an Oliver man g.v. who makes staples from heated iron rod or stout wire.

steam hammer driver, as for hammer attendant.

steam hammerman, steam hammer smith; a forge hammerman g.v. who is in charge of forges in which power hammer is operated by steam.

steel pressman, steel pressman, see forge pressman.

steel tyro maker; a drop forger g.v. who stamps out steel tyros from hot steel plate or rod by means of drop forges.

steel tyre presser; a forge pressman g.v. who places strip of steel in heavy hydraulic press and by operating press causes it to be bent round steel template into shape of tyre ready for welding in rim welder g.v. straightener; (i) are hot straightener; sometimes specifically designated, e.g., angle iron straightener g.v., axle straightener, bar straightener, drill straightener, iron straightener, twist drill straightener; (ii) are cold straightener g.v., who while drawing out steel into long thin strips by means of a tilting hammer, so hammers steel that it is kept straight.

straightener, frame shop; an angle iron straightener g.v. who straightens heavy frame work of locomotive undercarriages, by pressing it whilst hot, under a steam hammer or hydraulic press.

striker, forge striker, drummer (Birmingham and S. India), hammer-smith, smith's hammerman (Scotland); assist smith g.v. in forging iron or steel articles from bar, rod, plate, sheet, etc., by placing bar, etc., in furnace or forge fire, tending to hammer which admits it to be drawn under direction of smith, withdraws metal when smith judges it to be sufficiently hot for forging process, e.g., welding, bending, swaging, etc., and places it, by means of tongs, on anvil of steel table; using slide hammer, strikes hot metal, or forging tool held on hot metal by smith, in accordance with smith's instructions; may hold metal in tongs during forging process and turn it during forging as instructed, or this may be done by smith himself; cools article made with tongs and places it in forge fire for further heating, if necessary, or removes it to one side to cool; acts as general assistant to smith (there may be one striker or more according to nature and size of work); may also be a smith's fire with small coal, usually damped, as required, except where there is a special forge furnaceman (71) g.v.; sometimes specifically designated, e.g., anvil smith's striker, angle iron smith's striker, angle smith's striker, anvil smith's striker, anvil striker, auger striker, bar maker's striker (seville), blacksmith's striker, blade striker, chain striker, coach smith's striker, edge tool forger's striker, edge tool striker, fork striker (agricultural implements), general smith's striker, hand forge smith's striker, hand forge striker, iron wheel striker, axle wheel striker, ship blacksmith's striker, smith's striker, wagon spring smith's striker.

stud cable maker; a chainmaker g.v. who forges large chains which have central crossbar in each link.

swager, swaging machine worker; operates swaging machine by means of which he swages or hammers out to thinner dimensions rods or bars of heated iron or steel, which he holds in tongs; sits in front of machine and moves heated bar backwards and forwards beneath swaging tool which automatically rises and falls on lower swaging tool fixed on steel blocks; moves from one set of swaging tools to next as required (machine has

three or more sets usually, and swaging, i.e., reducing, is done gradually; receives heated bars of metal from heater g.v. and returns them to him for re-heating if necessary; swaging by hand is part of smith's work, see smith; sometimes specifically designated, e.g., agricultural machine knife swager, machine knife and section swager.

swivel maker; a chainmaker g.v. specialising in making swivels for chains or anchors.

table blade forger (hand); a tinsmith (hand) g.v. who hammers out blades of table cutlery roughly to shape from heated strips of special steel; works on bolster and hammers out iron tang of knife.

table blade stamper; a drop forger g.v. who, by means of dies cuts out, from heated sheet of special steel, standard blades for table knives; may stamp out blade and handle in one piece in case of cheaper class of knife.

tanger (roffed blade); a smith g.v. who welds bar of iron on to forged blade, cuts it off about one inch or less from weld, heats it up in forge fire and hammers it out by hand or machine to form tang which is to be bedded in handle of knife; may also draw or hammer out a slab of metal left on blade to length and thickness of tang.

tapered packing drawer, see ship packing maker.

thimble maker, see ship's thimble maker.

tilter (steel), tilt hammer-smith; a smith g.v. who holds, by means of tongs, heated bars of steel under an automatic hammer and moves them backwards and forwards under hammer so that steel is beaten out into long thin strips of definite size and thickness. Hammer is known as a tilt hammer and is raised by leverage of a series of projections, i.e., cams, on a revolving shaft, and allowed to fall by its own weight as soon as released from cam and before next cam raises it again; steel is prepared in this form for sale; cf. tilter (279).

tool forger, toolmaker, toolsmith; a smith g.v. who heats bars of special steel in small forge, hammers them to required shape by hand, re-heats them to definite temperature, usually in gas or electric furnace, and then hammers, by swaging it in water or oil, in case of large tools, e.g., metal shears, forges small piece of special steel to shape by hand, and welds it on to tool so that it is in position to do work required; sometimes referred to according to nature of tool made, e.g., bit maker, brace maker, chisel maker, coupling nailer maker, chasing tool maker, crowbar maker, drill maker, mattock maker, punch maker.

tram hammerer and inspector (rolling mill); hammers plates by table and hand, using a hammer and gauge plates, trammer or trams (special gauges for testing alignment); rejects faulty plates, marking fault with chalk.

transmission; an angle iron smith g.v. who shapes and welds together angle iron to make framework of colliery or other industrial trams and undercarriages, usually also carries out smithing repairs.

T-ring welder; an angle iron smith g.v. who bends hot angle iron round a pattern and welds ends together to form rings of steel of T-section, i.e., angle iron.

tube smith; a smith g.v. who specialises in tube welding, flange welding on to tubes, and tube bending.

tyre becker; a smith g.v. who forges railway and tramway tyres, smoothed by becking hammerman g.v. and using a becking anvil.

tyre shrinker; wheel tyrer; heats steel tyre in gas fired furnace, withdraws it when hot by overhead crane and places it, by means of tongs, on wooden or steel wheel centre, in hydraulic press; receives press, by means of lever, and so brings tyre under hydraulic hammer; may also hammer on by hand a retaining ring.

tyresmith; a smith g.v. who makes steel tyre for motors by hand forging, bending and welding from steel strip; cf. steel tyre presser.

tyre stamper, see wheelman.

undercarriage maker, see paramblator fire smith.

speeding machineman; a smith g.v. who operates by chains and levers an upsetting machine, by which metal bars, etc., can be thickened or widened; heats part to be thickened, sets up in machine by means of special clamps, or crane, and with assistance of helpers either hammers on end of bar or allows bar to drop vertically on steel block.

veer, see glutter.

vertical man (shipyard); heats steel plates in large vertical furnace, and then withdraws them by crane, and bends them in plate bending machine; cf. plate bender.

wagon smith, as for transmitt, making and repairing steel framework of wagons.

wedge maker; a smith g.v. or a drop forger g.v. who forges wedges, i.e., wedge-shaped chisels used in road mending.

welding machine smith, see angle smith.

welder; a smith g.v. who joins two pieces of iron or steel together, whilst hot, by hammering them; receives two parts to be welded from striker g.v. who has heated them to welding temperature in charge furnace; joins them with tongs and holds parts together on anvil, having first scraped off scale and scales and sprinkled a little powdered borax on surfaces to be welded to act as flux; holds parts together firmly whilst striker bites them with wedge causing them to weld; welding by above method is usually part of work of smith; cf. oxy-acetylene welder (249), electric welder (249), gas welder (249), wire (249), gas welder (249), sometimes specifically designated, e.g., barrel welder, chain welder, and welder, flange welder, pipe welder, rim welder, side welder, socket welder, T-rim welder, wheel welder.

wheel hose maker, wheel centre maker; better; a smith g.v. who forges to required shape the centres of railway or other steel wheels.

wheel disc presser; a forge pressman g.v. who presses out wheel discs for motors, etc., from heated steel steel.

wheel drummer; a striker g.v. who assists wheel smith g.v. in forging steel wheels for motors, railway coaches, etc.

wheelman; tyre stamper; a forge pressman g.v. who presses out steel tyre rollers, etc., from heated steel strip.

wheel smith, iron wheel smith; a smith g.v. who makes wheels by forging; may include work of rim welder, steel tyre presser, wheel glutter, wheel spoke bender g.v.

wheel spoke bender; a forge pressman g.v. who bends heated steel bar in a press fitted with dies, into shape of closed V so that sides of V form spokes and top arc forms part of rim.

wheel tyrer, see tyre shrinker.

wheel welder, see rim welder.

wrought nail maker; sparrow bill maker; an "Oliver" man g.v. who forges wrought iron nails from iron rod.

Sub-Order 6.—Machine Tool Workers.

200.—SLOTTERS, MILLERS, TURNERS, AND OTHER MACHINE TOOL WORKERS.

axle operator, **bar** auto operator; works semi-automatic capstan lathe, for turning, from bar iron or steel, small turned fittings used for rolling stock; places bar metal in mandrel, fits lathe tools in chucks, and operates hand wheel and levers adjusting working parts of lathe during turning.

axle tender; a turner *q.v.* who operates a special axle-tending and centering lathe, which faces and centers ends of axle for wagons, locomotives, etc., which are afterwards again turned on lathe by axle turner.

axle rougher, **axle rougher-out**; a turner *q.v.* who turns railway axles roughly to size.

barrel roller; sets rifle barrel, in its finished bore.

barrel fitted; an operator who fits center barrel and cut rifling grooves when power is switched on; watches proper working of lathe.

barrel stripper, *see* turner, barrel.

barrel chamferer; operates a chamfering lathe to chamfer or bevel bottom edge or shield of metal hob-biss, or metal flange or ferrule generally inserted in or on bottom of wooden cone or bottle-shaped bobbins; fixes shield or ferrule in lathe, sets chamfering tool, starts, stops and adjusts lathe for turning.

bore; boring machine worker, *boring* machinist; (i) sets up, controls and operates boring machine, *e.g.*, horizontal, vertical, etc., used for making or enlarging holes in metal, of a size greater than holes made by drill; work varies with type of boring machine; generally fixes work on machine table, adjusts it to a desired angle, other than horizontal or vertical position, if necessary, and sets boring bar, or spindle and cutters; (ii) sets up and operates machine such as lathe, or drill lathe and boring machine, used for drilling and/or boring small work; sometimes specifically designated according to article or material bored, *e.g.*, hole borer, iron borer, screw borer, web borer, tyre borer, wheel borer, wheel hub borer, or kind of machine used, *e.g.*, horizontal borer.

bore, barrel fine; (i) takes barrel after drilling, *see* barrel driller, and enlarges bore with a square bit on resamming or horizontal drilling machine; *cf.* bore, driller, resamer; (ii) sets up and controls levers of type of lathe or drilling and boring machine which cuts and forms from bar steel, barrels of rifles, pistons, and machine guns; widens out bore either on same machine or on boring or resamming machine, *are* bore, resamer, to form chamber; sometimes also finishes by machining and grinding.

bore, bell (tube), *see* bore, long.

bore, commutator, *see* turner, commutator.

bore, counter; (i) counter sinker; a driller *q.v.* who operates a drilling machine to bore, drill or counter sink, in metal articles, enlarged holes to form seating to receive a screw; (ii) *see* bore, turner.

bore, cylinder; counter borer; accurately finishes internal surface of metal cylinders for engines, pumps, automobiles, etc., (usually castings), on boring or drilling and boring machine, by enlarging the already bored-out cylinders; *are* *for* drill lathe or borer; sometimes bolts cylinders, *etc.*, for boring, to sliding carriage of special machine used, instead of to table of ordinary boring machine.

bore, long (tube); *bell* borer; a bore *q.v.* who bores or drills holes in tubes or bells used in drawing butt-welded tubes; measures accurately with micrometer and files, if necessary,

boring machine worker, boring machinist, *see* bore.

boring mill operator; a bore *q.v.* engaged on boring mill, a machine adapted for wide variety of work and capable of boring, or enlarging, up to several feet diameter; bolts down or otherwise disposes work, adjusts gears, shafts, and other driving and boring mechanism, and controls mill during boring.

broacher; broaching machinist; a driller *q.v.* who enlarges or smooths out core hole, a hole previously drilled, using a broach or reamer in a drilling machine.

bullard operator; a turret lathe turner *q.v.* working at Bullard vertical turret lathe.

capstan lathe hand, **capstan lathe worker**; attends capstan lathe, used in repetition work; sets-up work in jig, fixes tool in capstan and controls tool and power levers of lathe.

center, *see* turner, centering machine worker, center; lars of fix work to be marked, *e.g.* of railway axle in V-shaped channel of lathe or centering machine; manipulates two levers and so marks exact centre and at same time punches or drills mark simultaneously at each end; sometimes specifically designated, *e.g.*, axle center.

chamberer (gun barrel), barrel chamberer (gun), gun barrel chamberer; widens-out bore of broach end of gun, rifle, etc., with resamming bits on a capstan lathe to form chamber; sometimes done by barrel fine borer *q.v.*

chamberer, champherer; a bolt facer or nut facer *q.v.* who feeds and operates specially converted lathe on which set of horizontal and round end of bolts are formed.

cleaner; a chamferer *q.v.* who also cleans up and sharpens thread of screw, by hand.

copying machine worker, *see* profile.

counter sinker, *see* bore, counter, cutter, gear; gear cutting machinist; mounts and sets-up work in gear cutting machine; makes necessary fine measurements and adjustments of cutting tools; controls levers and watches correct working of machine; sees that flow of lubricant is maintained; *cf.* miller; sometimes specifically designated, *e.g.*, bevel gear cutter (both inclined to axis).

cutter, manhole, *see* machinist, man-hole.

cutter, screw; cuts screw-thread in fittings, machine parts, etc., on a screw-cutting machine; sets work and steel die in lathe clutch and holder; controls power-drive levers.

cutter, shell; a lathe hand *q.v.* who cuts end of shell cases, after drawing, with parting tool on lathe.

cutter, spiral; a turner *q.v.* who cuts large screw-threads, or worms, in a lathe.

cutter, steel letter; steel letter carver; a vertical miller *q.v.* who makes large steel letters, figures, etc., from steel plate on a vertical milling machine; *cf.* profiler.

cutter, vice (box) cuts in a lathe, usually semi-automatic, spiral slot on inside of vice box, into which, pin of vice box fits and moves.

cutter, vice pin; cuts in a lathe, usually semi-automatic, spiral slot on end of vice for fitting into vice box.

cutter, wheel; a gear cutter *q.v.* who cuts teeth in chain wheels for cycles.

cutter, worm; cuts, in lathe, worm threads for balance screws, or for re-feeding gear, on wheeling machines.

die maker; machinist and finishes draw plates and tribble dies which have previously been forged, and which are used in tube drawing; *cf.* die sinker (230).

drifter, *see* facer, nut and bolt.

driller, machine driller; drilling machine attendant; drills machine work; drilling machinist; (i) operates drilling machine for drilling holes in metal; sets-up work, with or without jig, adjusts drills, controls power drive by levers; duties vary with type of drilling machine; where machines are built to allow small shops may set up, *see* machine; sometimes specifically designated, *e.g.*, axle box driller, barrel driller, body driller (motor car), brass driller, card cylinder driller, card roller driller, cast-iron driller (metal), circle driller (textile machinery), cycle driller, faller driller, flyer pin driller, flyer pressor driller, frame driller (piano), gas burner driller, gas ring driller, handle driller, textile machinery, hole tip driller, hook driller, iron driller, jill driller (textile machinery), key driller, machine knife driller, metal castment driller, plate driller, and hub driller, rim driller, toe driller, vice pin driller, wheel driller, wheel hub driller, wheel rim driller, window frame driller (metal castment), window pin driller.

driller, radial; a driller *q.v.* employed on a drilling machine having drill displaced on radial arm to allow drilling on large or awkwardly-shaped work.

driller, sample; a driller *q.v.* who drills holes in test steel castings, with vertical drill, to facilitate work of analyst.

driller, slot; operates special drilling machine with flat ended drill, which cuts straight parallel sided grooves in shafts, etc., to accommodate key.

driller, vertical; vertical machine driller; a driller *q.v.* who is operating a drilling machine having drill vertically disposed, as distinct from horizontal or radial drill; changes work on table of machine, brings drill to bear on work and controls power by hand or foot levers; may use template or jig to fix position of holes.

drilling machine attendant, **drilling machine worker**, *see* driller.

drill maker, twist drill maker; (i) turns and machines steel twist drills in lathe or in automatic milling machine; (ii) general term for persons employed in drill making, including drill fluter, drill grinder (237) and drill pointer (237) *q.v.*

edge tool machineman, *see* machinist.

face; facing machinist; faces, *i.e.*, renders flat and true surfaces of pipes, valves, machines, engines and parts that need tight jointing, on face plate lathe; from work so that face may be traversed by tool; *see* driller, who operates lathe; *cf.* facer (235); sometimes specifically designated, *e.g.*, pipe facer.

facer, nut and bolt; bolt facer, nut facer; driller, head shaver, trimmer; a facer *q.v.* who feeds and attends nut facing machine which gives bright finish to nuts and bolts.

ferrule maker; ferrule turner; a turner *q.v.* employed in turning ferrules for protecting ends of boiler tubes; *see* turner, ferrule.

finisher; a turner *q.v.* who receives roughly turned work and turns it true to gauge on a finishing lathe; makes necessary fine adjustments and measurements; sometimes specifically designated, *e.g.*, axle finisher, axle bush finisher, wheel finisher.

fitter; grinder; cuts grooves or flutes in drills, taps, reamers, etc., on milling machine, or machine having special grinding or cutting tool, or on traversing lathe fitted with abrasive wheel, sets or faces work in jig or template, clamped to table of machine; controls table, tools and power by levers; sometimes specifically designated, *e.g.*, drill fitter.

fluter, roll (rolling mill): (1) turns rolls of rolling mill (hot or cold) in size; fits up special tool rest or guide in front of rolls and cuts away irregularities and trues up surface of flutes or grooves with hand tools as rolls revolve; (2) a turner *g.v.* who fits up rolls in special lathe, when they become unserviceable through wearing of surface; as roll turns in lathe, trues up surface with cutting tool.

fluter, roller (textile machinery): (1) operates a small planing machine fitted with cutting tools to cut grooves in metal rollers; (2) operates a milling machine which mills-out grooves in metal rollers, for use in drawing frames, and other textile machinery; in both cases, work is usually set up by machine tool setter (211) *g.v.*; sometimes specifically designated according to roller worked upon, e.g., bottom roller fluter, top roller fluter.

flyer cutter-out: cuts-out groove in hollow leg of flyer, i.e., yarn twisting mechanism.

flyer holder: a driller *g.v.* who drills holes in flyer leg for insertion of pins in fitting up flyer mechanism.

flyer rancier: a driller *g.v.* who enlarges socket hole in boss or flyer, used in yarn twisting.

Gisholt lathe operator: a lathe attendant *g.v.* who operates a Gisholt lathe for boring metal.

glazier's diamond ferrule hand: a lathe hand *g.v.* who makes metal portion of diamond tool handle.

groover, see fluter.

head shaver, see facer, nut and bolt.

hub maker, see turner, wheel hub.

hub worker, wheel hub worker: general term for worker engaged in hub making, including wheel hub holer, wheel hub driller, wheel hub taper, wheel hub turner *g.v.*

jogger; jogging machinist: sets-up and operates machine, shaping light steel sections used in construction engineering to form jogger, or step of T-silon, which permits flattening of iron against another plane surface; sometimes shapes sections by hand.

key seater: machines keyways, in shafting and gear of locomotive engines and rolling stock, on a slotting or milling machine; *cf.* miller, slotter.

lathe attendant, lathe hand, lathe-man: general term for operator engaged on a lathe, automatic, semi-automatic, etc.; duties vary considerably with lathe and type of work concerned; may merely hold tool to material, and start and stop lathe for repetition work, *see* capstan hand, or, may be a skilled turner *g.v.*

machine man, machine operator, see machinist.

machiner; edge tool machineman: general term for drifter, grinder, miller, planer, etc., *g.v.* engaged in making machine knives and hand tools.

machiner, action: operates machine for planing, turning, etc., parts of sections of small arms, from hand or drop forgings or castings.

machiner, barrel: shapes barrels of rifles, pistols, or sporting guns, by bringing them into contact with milling cutters in milling or other machine; precise duties vary with type of machine upon which engaged.

machinist, metal machinist; machinist man, machine operator: general term for any operative working on a machine which turns, planes, drills, bores, reams, slots, taps, or otherwise operates on metal, by means of machine tools; sometimes specifically designated, e.g., axle box machinist, carriage machinist (textile), oscio machinist, gun machinist, motor machinist, rifle machinist, shell machinist, transmission machinist, ball bearings; attends and feeds a semi-automatic machine which grades roughly pressed balls into spherical form between grinding cutters, and which highly polishes

them; maintains supply of lubricant, watches for faulty work and reports to machine tool setter (211) *g.v.*

machinist, layonet socket: operates a milling and drilling machine used in slotting and drilling layonet sockets; sets and adjusts special jigs and fixtures.

machinist, broacher, see broacher.

machinist, drilling, see driller.

machinist, facing, see facer.

machinist, fitter's: a machinist *g.v.* who performs small machine operations, on engine parts, etc., *g.v.*, planing, milling, under instructions of Miller (210) *g.v.*, usually skilled in setting up and operating various machine tools.

machinist, gear cutting, see cutter, gear.

machinist, jogging, see jogger.

machinist, machine: machine cutting machinist; machine cutter; sets-up and operates special machine for cutting circular or oval manhole openings in plates.

machinist, metal window: a driller or miller *g.v.* who machines various parts of metal elements, to ensure accurate fitting; may also punch holes *see* puncher (275).

machinist, milling, see miller.

machinist, nosing: sets barrel in small-hole lathe, and brings cutting tool to bear to round-off muzzle ends or muzzes of gun barrels; may finish them with a belly brace.

machinist, plate planer, see planer, plate edge.

machinist, reamering, see reamer.

machinist, screwer: screwing machinist, see screwer.

machinist, shaper, see shaper.

machinist, slotter, see slotter.

machinist, socket (swords, etc.): a slotter *g.v.* who makes T-slot at grip end of bayonet, to fit into T-piece on rifle.

machinist, spinning: a slotter *g.v.* who cuts slots for feathered keyways (splines), etc., in shafting, pulley hubs, etc.

machinist, tapping, see tapper.

machinist, waving: sets-up, and operates lathe adapted to produce curved raised portions, or "waves," near base of shells, to take and exactly to fit copper driving band of shell.

mill: milling machines men, milling machine worker, milling machinist: (1) sets-up, attends to, and operates milling machine, which shapes metal by means of many toothed rotating tool-like cutters; duties vary with type of milling machine at which engaged but include setting gauges by hand and fixing various tools and devices in position, moving hand or foot levers to control power drive, position of work and of tool; (2) attends, sets-up, and operates machine other than milling machine which shapes metal by means of cutting tools having action similar to those of milling machine; sometimes specifically designated, e.g., axle box miller, layonet miller, cyclo miller, machine knife miller, sword blade miller, tool miller.

miller, die: a miller *g.v.* who reduces dies to correct shape and dimensions by treating surfaces in milling machine, before dies are cut by die setter (230) *g.v.*

miller, set: a miller *g.v.* who mills "false" of textile carding machine (upon which card clothing is nailed).

miller, profile, see profiler.

miller, saw: a miller *g.v.* who cuts teeth in a number of saw blades clamped together.

miller, space band (linotype machine): a miller *g.v.* who operates special semi-automatic machine for milling small strips of steel to be used as space bands in linotype printing; does not usually set up machine.

miller, universal: a miller *g.v.* who sets-up and operates a universal milling machine, which is of complicated mechanism and suitable for milling

numerous classes of work; makes accurate micrometer measurements and adjustments of cutting tools; controls machine by manipulation of numerous hand and foot levers.

miller, vertical: a miller *g.v.* who sets-up and operates a miller machine having spindles vertically disposed; this permits of end and face cutting, and also of profiling, *see* profiler.

milling machine man, milling machine worker, see miller.

parser, scythe parer: sets-up and operates machine having specially designed tools for cutting, shaping, paring or planing scythes, sickles and rasping hooks; work may be done by a lathe hand, or a planer *g.v.*

planar; planing machine worker: sets-up work and operates reciprocating machine which cuts shavings from metal articles to bring them to desired shape; faces gauges and tool in position making accurate adjustments; sometimes specifically designated, e.g., axle box planer, flat planer (carding engine), girder planer, machine knife planer, rail planer, switch and crossing planer.

planer, die: a planer *g.v.* who shapes surfaces of die to bring die to required dimensions before cutting by die sinker (230) *g.v.*

planer, plate edge; plate planer; plate planer machinist: plate planing machine attendant, plate *g.v.* engaged on a plate edge planing machine in which tool travels backward and forward along edge of plate clamped on table of machine.

planer and slotter, wall slot fitter and planer, wall slot and copper, planing and slotting machine, which is fitted to a wall, works vertically and is adapted for dealing with large and awkwardly shaped work.

planing machine worker, see planer.

plate planing machine attendant, see planer, plate edge.

profiler, profiling machine worker; coping machine worker, profiler, miller: vertical miller *g.v.* who pulls form arm of machine against outline of the form, or profile of object to be copied, and so guides milling cutters to reproduce profile of work, e.g., for curved chandeliers or slotting, ornamental metal work.

rancier (textile machinery), see reamer.

reamer, reamerer; rancier (textile machinery), reamerer machinist, rancierer, rancierer: sets-up and operates machine, such as lathe (*see* lathe hand), which enlarges holes to required size, by means of a reamering tool; *cf.* borer, and driller; sometimes specifically designated, e.g., flyer reamer, driver reamer, rancierer, rancierer, *see* reamer.

reder maker (textile machinery): a turner *g.v.* who specializes in turning and making on lathe, various iron rollers for use in textile machinery.

roller sawyer (steel): (1) feeds and attends cutting machine which cuts mild steel rods into sections for small rollers used in roving and spinning machines; (2) places roll in supports under power-driven back bar, operated by hand lever.

roll runner (rolling mills): assists roll turner (109) *g.v.* by helping to place rolls in position in lathe by means of a crane; sometimes does rough or first turning of roll; helps to remove roll from lathe.

sculpting machine worker, see scarfer.

scarfer, scarpher, sculpting machine man; sculpting machine worker: sets up job on sculpting machine and operates it to taper corners and ends of plates and angles, to allow them to overlap each other, when riveted in position, in shipbuilding.

screwier; screwer machinist, screwing machine attendant, screwing machine man, screwing machine worker, screwing machinist, threader (bolt, nut and

screw, wormer, feeds and operates automatic or semi-automatic screwing machine, which cuts threads on bolts, in nuts, spindles, etc.; may be limited to screwing i.e. external threading, or may do screwing and tapping (cf. tapper) by adapting machine, adjusting tools, etc.; machine is usually set up by machine tool setter (211) g.v.; sometimes specifically designated, e.g., hexagon lock screwer, button screwer, copper bolt and nut screwer, iron cog screwer, iron stud screwer, stud screwer, turret screwer.

screw, axle box; axle bush screwer, see turner, axle box.

screw, tube; machines screw thread on tubes under such conditions in diameter; cf. turner, steel tube.

screwing machine attendant, screwing machine hand, screwing machine worker, see screwer.

shaper; shaper mechanism, shaping machine; machine: from small iron and steel component parts, e.g., die, axle box, bolt head, on bed of shaping machine tool (a kind of planing machine); uses gauges and sets cutting tool in hand of reciprocating arm or ram and controls power drive by means of levers; sometimes specifically designated, e.g., axle box shaper, bolt head shaper, die shaper, nut shaper; cf. lathe hand, miller, planer.

shaper, ship; propeller; a planer g.v. equipped in training-up propeller blades to correct pitch on metal planing machine fitted with special adjusting gear.

shaping machine, see shaper.

slasher (sewing machine needles); a planer g.v. who feeds needles into semi-automatic planing machine, which cuts a flat surface on side of shaft of sewing machine needles.

slider, shaft slider, sliding machine-man; a turner g.v. who fashions long lengths of shafting on shaft sliding machine adapted for such work.

slotter; slotter machinist, slotting machine man; sets-up and operates slotting machine which cuts slots in metal, or dies or patterns of metal, in lathe and milling machines are commonly used for this purpose, see lathe hand, miller; sometimes specifically designated, e.g., flyer slotter (textile machinery), machine knife slotter, plate slotter, spindle slotter.

slotter, axle; makes slotted hole, by means of special slot drilling machine, through axle and fixes therein, pin which holds together axle and box.

slotter, spring; pierces on slotting machine, steel springs used in building rolling stock; cf. spring puncher (264).

slotter and planer, wall, see planer and slotter, wall.

slotting machine man, see slotter.

spindler; a lathe hand g.v. who operates lathe in which cycle spindles are turned and screwed; cf. spindler (279).

steel letter carver, see cutter, steel letter.

stock maker (textile machinery); (1) a turner g.v. who fashions cylinders to correct size; (2) a miller g.v. who mills reeves on turned cylinder ready to receive matrices into which needles of circular comb are fixed.

tapper; tapers holes, after drilling, to fit taper pins by boring up to required machine, or by use of hand reamer.

tapper; tapping machine attendant, tapping machine hand, tapping machinist, threader (bolt, nut, screw, etc.); sets-up, and controls machine for tapping, i.e., cutting threads in nuts, etc., as distinct from external threading, e.g., on screws; cf. screwer; may be engaged on a lathe or drilling machine, tapping by means of tapping tools; sometimes specifically designated, e.g., button tapper, hub tapper, nut tapper, wheel hub tapper.

tapper, stay; stay hole tapper; a tapper g.v. engaged on tapping holes in condenser shafts into which stays are fitted.

tapper and bolter, wheel; drills and afterwards taps, holes, (see driller, tapper) in wheel centres, to receive screws holding wheel tyre to centre.

tapper, screw; sets tyre to centre, screws in studs, or set screws, and tightens them up.

tapping machine attendant, tapping machine hand, see tapper.

threader (bolt, nut, screw, etc.); (1) see screwer; (2) see tapper.

tracker; sets-up and operates semi-automatic machine which tests seatings, or track or ball race, of ball bearings.

traverser; a turner g.v. engaged in shaping long shafts, rollers, or cylinders, mainly in the rough, i.e., without putting a finished surface on them.

tread, wheel treader, see turner, tyre.

trimmer, see faser, nut and bolt.

turner; fashions metal, by applying a cutting tool to it, as it rotates in lathe; sets-up work, fixes and adjusts tools and gauges by means of clamps and screws in chuck, tool rest, etc.; arranges gears to obtain most suitable cutting speed; controls lathe during turning, by means of hand wheels and levers; understands working of common makes of lathes, including setting-up and operating of more complicated lathes, such as turret lathe, and use of lathe tools, cutters, drills, etc., as distinct from lathe hand, e.g., capstan lathe hand, who may possess no such skill; precise duties, e.g., guiding tool, and hand control of lathe in use of tool, vary with work and lathe concerned; sometimes specifically designated, e.g., aluminium turner, axle turner, axle tree turner, beam turner (textile machinery), turner, bowl (or roller) turner, turner, bowl turner, calender bowl turner, centre boss turner, copper turner, copper hand turner, crank turner, die turner, engine tool turner, (textile) flyer socket turner, flyer top turner, fly wheel turner, gun mounting turner, hinge turner, hollow-ware turner, iron turner, lead turner, locomotive turner, loom turner, machine tool turner, mechanical turner, marine turner, motor turner, piston lock key turner, rim turner, ring turner (spinning frame), roller turner, shell turner, stock lock key turner, stud turner, textile turner, tool turner, tyre turner, valve turner, vice box turner, vice pin turner, wheel axle turner, window pin turner.

turner, axle box; axle box screwer, axle bush screwer; a turner g.v. who finishes rough castings to required dimensions for an axle box or axle hush in lathe and threads, i.e., puts screw thread on end to receive brass grease cap.

turner barrel; barrel stripper; a turner g.v. who turns, on lathe, to required diameter moulins, i.e., for and rolls blanks of gun or rifle barrels.

turner, capstan; capstan lathe turner; a turner g.v. performing skilled work on a capstan lathe, a lathe in which turning is done by means of a tool fixed in a capstan head; sets up work and tools in capstan head, making necessary adjustments to ensure accurate work; cf. capstan lathe hand for repetition work, and other work not requiring fine skilled work.

turner, commutator; commutator borer; sets up and operates lathe or other machine for boring out commutator in preparation for building up on armature; after boring, files down copper ends of armature and machines or turns it smooth and true; cf. borer, turner.

turner, copper roller; a turner g.v. who drills and bores copper castings, then turns roller in a lathe to make it true, after casting has been assembled with steel spindle to form roller.

turner, cutter; a turner g.v. who shapes on lathe, round parts of cutting tools used on cutting and worming machines; work sometimes done by tool maker (267) g.v.

turner, engine; (1) a turner g.v. who turns crank-shafts and similar engine parts, on lathes; (2) old name applied to turner who operated power-driven lathe.

turner, engraver's; turner's (roller engraving); a turner g.v. who turns off designs, which have been previously engraved on rollers, to provide new surface for fresh engravings.

turner, ferrule; see ferrule maker.

turner, gun; turns, on lathe, heavy steel forgings for guns; sets cutting tool, makes changes in gearing, etc., during turning, and generally controls semi-automatic machines boring and turning parts of large calibre guns.

turner, hub; see turner, wheel hub.

turner, key; turns, on lathe, using template cutting tool, round parts of keys.

turner, rim engine (rifles); sets-up and operates on engine-turning lathe to turn rifling, or more, of small calibre on ribs of better class small arms.

turner, rough; a turner g.v. who is engaged on rough turning in boiler, railway and other engineering work.

turner, steel tube; (1) turns screw threads on ends of tubes, eight inches or more in diameter, for connecting purposes; cf. tube screwer; (2) a lathe hand g.v. who turns-down, i.e., reduces diameter of ends of cylindrical tubes in preparation for screwing.

turner, tube; cuts in lathe to required length large and heavy tubes, having bore from eight to twelve inches in diameter, cf. faser.

turner, turret lathe; turret hand, turret lathe hand, turret lathe operator; a turner g.v. who sets-up and operates turret lathe, having tools, usually four to six in number, gripped in turret, and which brings round tools in due succession to perform necessary operations, e.g., turning, screwing, reaming and finishing cuts, drilling and boring; also operates tool if necessary, for cross cutting or outlining.

turner, tyre; treader, wheel treader, wheel turner; a turner g.v. who turns, on a special lathe, treads of rolling stock tyres, after they have been ground on axle.

turner, wheel; (1) turns wheels of railway rolling stock, sets-up in lathe, castings of wheels, and trues-up to suitable dimensions for fitting tyres; (2) see turner, tyre.

turner, wheel hub; hub maker, hub turner; shapes hubs for perambulator and similar wheels, on lathe, by drilling, boring, tapping, etc.

turner-off (roller engraving), see turner, engraver's.

turret hand, turret lathe hand, turret lathe operator, see turner, turret lathe.

vargar (face carriage making); a lathe hand g.v. who cuts out the verge or semi-circular setting for hobbin.

vertical man, see driller, vertical.

wheel toppler; a turner g.v. who turns on lathe, periphery of wheel centres of wheels for railway or tramway rolling stock; cf. wheel tapper and borer.

wharver, scraper, wheel scraper, wheel scraper; a lathe hand g.v. in spindle department of textile machine works, who finishes off (scraps) parts already turned.

wormer, see screwer.

Sub-Order 7.—Fitters and Millwrights.

210. ERECTORS, FITTERS.

adjuster; overhauler; a fitter or motor fitter e.g. who overhauls and adjusts after assembling is completed. stationary engines, cars and similar vehicles, component parts of valves or crankshafts, and similar mechanism; cases lock units, screws, etc., with hand tools; in case of motor car, may give car a road test.

adjuster, unit; an adjuster g.v. who works on a complete unit, e.g., engine of motor omnibus.

adjustment operator (sewing machine); *ajdstwa* sewing machine parts with hand tools; may grind down parts on small treadle grinding machine, drill holes or make existing holes larger with bow drill, etc.; cf. *fitter* (sewing machines).

arm shaft free; an adjustment operator, *g.v.* who specializes in adjusting, by hand, bevelled cogs or eccentric cams to be fixed on arm shaft of sewing machine; may grind cogs or cams on grinding machine.

beam flanger; a fitter g.v. who repairs
and fits metal flanges to warping
beams.

beam maker (metal); flange fixer (beam making); a fitter g.v. who fits together, adjusts screws and bolts, and alters with hand tools, if necessary, shaft flange ends, adjustable sockets, spindle bar or cupped ends with shafts, together, sometimes

bearing reliner (railway): a bearing fitter (see fitter) who specialises on refitting linings to bearings of rolling stock.

bedder; a fitter *g.e.* who assembles and fits together locomotive wheels and axle boxes, or who fits cylinders

blade, turbine blade; blade fitter, a fitter *q.v.* who attaches blades to rotors and casings of marine steam turbines, making necessary adjust-

blocker; a fitter g.v. who assembles and fits together component parts of lifting blocks, or pulley lifting tackle e.g., bearing checks, block stop

garnage hand (hosiery machinery); a fitter g.v. who assembles and fits together main framework, i.e., rails, shafting blocks, back bars and all outside heavy work of hosiery knitting

car frame setter; sets side and cross members of chassis frames in a jig or lay-out; if part does not fit accurately clamps it in a vice and with forked lever, bends or sets the inaccurate

so that the part eventually fits the jig; may sometimes bend to corner shape in power press; sometimes done by chassis frame builder or creoler e.g. carriage hammer (iexila), see flutcher, carriage.

chassis frame builder; chassis frame
erector; builds up parts of chassis
frame on line and rivets them

comb maker, see combwright.
combwright; comb maker; a fitter

g.r. who assembles parts, builds & repairs textile combing machines; is engaged upon repair work only or maintenance work in mill, see mende (comb making).

elastic loom builder; an erector g.v. who assembles and fits together looms for elastic weaving.

erector; *assembles, fits together, and erects machines, engines, structural work, etc., and makes any necessary adjustments in course of erecting; does not prepare or make parts for erecting; cf. fitter; uses hand tools, spanner, hammer, screw driver; works usually from blue prints and specifications; some times specifically designated, e.g., erector body erector, airship erector.*

cultivator erector, engine erector, home box erector, lift erector, locomotive erector, loom erector, machine erector, screen erector, sheeter erector, steel folder erector, wall machinery erector.

erector, agricultural machine; agricultural fitter, agricultural machine fitter; a fitter and erector q.v. who fits together component metal and wooden parts of agricultural machines, adjusting them as required

erector, chassis; chassis fitter; a motor fitter g.e. who builds up and

bolts together sub-assemblies, e.g., wheels, axles, springs, differential gear, etc., upon chassis frame, etc.

erector, chassis frame, see chassis frame builder.
erector, dynamo; dynamo fitter, motor builder, motor erector (generators, etc.); usually a fitter

and erector g.v. who builds together and erects in position, dynamo machinery and electric station plant.

erector, frame (locomotives); frame filler (locomotives); an erector q.v.

who erects, bolts and rivets together parts of underframe of locomotive with stiffeners; may also erect smoke

erector, motor (generators, etc.), see
erector, dynamic

erector, motor (rolling stock), see

erector, motor (self propelled road vehicles—not steam). *see* fitter.

motor (self propelled road vehicles—
not steam).

erector, printing machinery; printing machinery fitter; a specialised fitter g.v. who erects printing machines in printing works; tests correct running of machine, when erected.

erector, pump, see lifter, pump.
erector, wagon, see lifter, wagon.
downright: erect, maintain, and

inwrought; erect, maintains and repairs fans for forced draughts or for ventilating purposes.

finisher, carriage; carriage straightener: (i) a mule fitter *q.v.* who adjusts and trues-up running sections of mule carriages; sometimes done by carriage fitter; (ii) bobbin and carriage straightener, carriage

Specifically designated, *s.g.* locomotive
saw apparatus filter, armpush filter,
alternator filter, axle box filter, bearing
box filter, body filter, body machinery
filter, bottle mould filter, brake
filter, brass bearings filter, carding
engine filter, car filter, chaff filter,
carriage filter, cast iron machinery,
chain filter, machine filter, clip chain
(stenter) filter, compound filter
(locomotive), die filter, double
(dobby) filter, engine filter, engine-
gear filter, engine shop machine
filter, frame filter (rolling
stock), frame filter (rolling
stock), free wheel filter (cycles),
gas and oil engine filter, gun
engine filter, gear filter (cycles), gun
filter (ordnance), gun and measuring
filter, hydraulic filter, hydraulic
ho filter, hydraulic machinery filter,
interlocking filter (railway signals),
ironmonger's filter, ironmongery
filter, iron pattern filter, knof filter
(agricultural), knof filter (textile),
knof filter, knof filter, looking
filter (railway signal), loco-
motive filter, machine filter, machine
sieve filter, machine tool filter,
magneto filter, machine engine filter,
male filter, male filter, oil engine filter,
oven filter (bauxite factory), pattern filter,
permanent way filter, plate pat-
tern filter, puting and growing filter,
potter's de filter, preparing filter,
power house filter, preparing ma-
chinery filter, railway filter, railway
engine filter, railway signal filter,
engine filter, roller filter, work-
rough filter, ship filter, ship tele-
graph filter, sight filter, signal
filter, speed filter (textile ma-
chinery), speed gear filter, spring
filter, spring terminal filter, steam
filter, steam filter, steam filter,
straps filter, steam gauge filter,
stember chain filter, stock filter
(metal bedsteads), switch and cross-
ing filter, tender filter, textile filter,
textile filter, tire filter, tire filter,
filter, tramcar filter, track filter
(tram), turbine filter, vacuum brake
filter, valve filter, wedge filter (rail-
way signals), Westinghouse brake
filter, wire filter, wire rope ma-
chine filter.

fitter, aeroplane; a fitter *s.v.* engaged on adjusting, fitting-up and repairing aeroplane parts; is often engaged in aeroplane erecting, *cf.* aeroplane builder (1888), but usually specialises on aeroplane parts, *e.g.* wheel, chassis, controls.

erector, agricultural; agricultural
machine erector, see erector, agri-
cultural machine

fitter, balance weight; fits weights used on loco wheels to counterpoise weight of cranks; cuts away metal from spokes to receive plates with acid-etched hammer and file marks

gold, silver, hammer and file; places plates and bolts in position; brings up arms of hydraulic riveting

machine slung in chains and rivets
plates together; pour molten lead
between plates to fill up space
between spokes.

fitter, blade, see **bladder**.
fitter, boiler; boiler mount **fitter**;
boiler monster, monster (boilers);
adjusts and fixes valves, taps, and
several mountings in position on

builders, either in works, or after boiler has been placed in position for use; of other boiler size.

fitter, boiler pipe; adjust and screws
into position, pipes attached to boiler

both within and without; boiler fitted
g.s. sometimes also does this work
fitter, box (iron or steel foundry)

ropeways, ching tills, etc.; makes extra parts and adjusts where necessary; keeps colliery plant in running repair.

fitter, dynamo, *see* erector, dynamo.

fitter, frame (locomotives), *see* erector, frame (locomotives).

fitter, frame (textile machinery), *see* assembler and fits parts to form textile machines; sometimes specifically designated, e.g., dobby fitter, loom builder, etc.

fitter, furnace, a fitter and erector g.v. who fits or sets furnace, iron pot, etc., after brickwork is completed; makes all necessary adjustments to metal work with hand tools.

fitter, line, linotype fitter; a fitter and erector g.v. who prepares parts, where necessary, and erects linotype machine in position in printing works, ready for use; also fits sub-assemblies in engineering workshop.

fitter, loom, *see* loom builder.

fitter, mechanical; a fitter g.v. who fits mechanism of generators, motors, etc., as distinct from dynamo, *see* erector, dynamo.

fitter, meter; fits remainder of mechanism of gas and water meters after clockwork has been fitted; sometimes, usually in small factories, also machines metal parts before fitting; sometimes specifically designated, e.g., gas meter fitter, wet gas meter fitter.

fitter, motor (rolling stock); motor erector (rolling stock), motor fitter; fits to bogies or under carriages of electric trams, motor used in propelling them; erects dynamo in position by building parts together.

fitter, motor (self propelled road vehicles—not steam); motor erector (self propelled road vehicles—not steam); general term for fitters engaged on fitting chassis, motor, etc., to motor cars, lorries, etc., including adjuster, car frame erector, chassis fitter, motor engine fitter, etc.

fitter, potter's die; fits die into blocks for pottery shaping machines; polishes or liggers; repairs or makes dies in wood or soft metal if urgently required.

fitter, printing machinery, *see* erector, printing machinery.

fitter, pump; pump erector, pump worker, pumpwright; is engaged in fitting up and repair of pumps and pumping machinery of all kinds; cf. pump doctor (244).

fitter, railway signal; fitter-up (railway signals); a fitter g.v. who specialises in fitting railway signal mechanisms; erects signals, connects them with boxes and signals boxes, etc., in signal box.

fitter, sanitary (pottery); a fitter g.v. who adjusts and fits up all machinery making pottery sanitary ware; does repairs and maintains steam piping, etc.

fitter, sanitary engineer; cuts metal piping by hand, mows cutting dies; turns pipes, uses stocks and dies; brazes pipes or sections brazed using blow pipe; does other similar work in fitting up pipes of brass or copper, preparation and adjustment of metal parts of sanitary apparatus and fixing of such apparatus in position.

fitter (sewing machines); a fitter g.v. who tests more important sewing machine parts on template for accuracy in readiness for assembling; cf. sewing machine assembler (279); adjusts parts, which assemblers are unable to fit easily, by grinding, etc.; passes work to minor adjustment to adjustment operator g.v.; may assemble certain of larger sub-assemblies.

fitter, stand, *see* stand builder.

fitter, steel door; cuts, dresses, and files plates and framework of steel doors used for safes, fireproof chambers or divisions of buildings as a protection against burglars or as a safeguard against fire; work sometimes done by planer (222) g.v.; cf. door maker (268).

fitter, tube; sketch hand; assembles sockets, flanges, points, couplings, bends, elbows, etc., on tube and fits on the various attachments to finished tubes; makes up special ranges of tubes or fittings, to specification.

fitter, tube (locomotives), engine fitter; cuts and fits tubes into boilers, barrels and fireboxes of railway engines.

fitter, wagon; railway wagon fitter; wagon erector; a fitter and erector g.v. who fits and erects railway wagon from prepared component parts.

fitter and erector; combines experience of both fitter and erector g.v.; first prepares parts to fit, then lays out for assembling and/or erecting, and finally erects according to blue prints and specifications.

fitter and finisher, box iron; cleans, dresses and machines castings intended for bodies of box gowns; drills holes in steel or brass fittings and assembles them; finishes brass by attaching wooden handles, etc.

fitter and turner; combines duties of fitter, and of turner (200) g.v.

fitter-up (iron and steel foundry), *see* fitter, box (iron or steel foundry).

fixer-up (railway signals), *see* fitter, railway signal.

flange fixer (beam making), *see* beam maker (metal).

funnel setter; a fitter g.v. who fits funnels used in manufacture of rayon (artificial silk).

frame maker, a fitter g.v. who assembles and build-up "beek" or framework on which berles are manipulated in a loom.

hydraulic valve man; a fitter g.v. engaged in maintenance of hydraulic plant; fits new parts, as required; also cleans, cleans and keeps in working order, valves and cocks of hydraulic system.

inside hand (bosiery machines); a fitter g.v. who fits up all internal intricate mechanism of bosiery machines after frame has been erected by cutters hand g.v.

lace machine builder; a fitter and erector g.v. who assembles parts and erects lace machines; does any necessary fitting in process of erecting.

liner, liner-out, liner-out, marker-out, marker-out, marker-out, *see* marker-out, marker-out, marker-out; with surface table man; prepared with chalk or whitening surface of casting, forging, etc., to be hand cut, drilled, machined, etc.; places casting upon surface table having dead level base, lines-out, i.e., marks, establishes planes and surfaces, relative dimensions of casting or forging to be toolled; in small shops, liner-out may be done by fitter g.v.

liner, engine; a fitter g.v. engaged in lay-out engine beds in proper relation to shafting, etc.; inserts liners (strips of metal) on bed to adjust level or balance of engine for more perfect running.

liner-up; a dynamo erector g.v. who places electrical machinery in test beds or otherwise in proper alignment, for driving.

liner upon test plate; a liner g.v. who places upon dead level surface of test plate, work to be examined for accuracy, and follows measurements given on blue print or in specification with scribbling block, dividers, compass, etc., as far as possible to prove correctness of cutting, machining, etc., done by fitter, driller (200), turner (200) g.v. on object under test.

loom builder; loom fitter; a fitter g.v. who assembles, fits together, and adjusts component parts of weaving loom.

marker-off, marker-out, *see* liner.

mender (comb making), comb mender, comb mender; a combwright g.v. who specialises in repairing the combing mechanism of textile combing or similar machines; e.g. mill box machines; may be engaged in

textile machinery works, or, as a maintenance man in a textile mill; sometimes done by pin molder (258) g.v.

motor builder, *see* erector, dynamo.

motor fixer, *see* fitter, motor (rolling stock).

mounter (boilers), boiler mounter, *see* fitter, boiler.

mounter, loom, (1) a fitter and erector g.v. who mounts special parts such as Jacquard or dobby attachments in looms, cf. dobby fitter, in textile machinery works, or, as a maintenance man in textile factory; (2) a maintenance man in textile factory, as distinguished from loom builder, loom erector g.v. in machinery works.

mounter (vehicles); attaches body, wings, slays, steepwheels, etc., to chassis, with bolts, screws and rivets, after erecting.

overhauler, *see* adjuster.

press builder, press maker; a fitter and erector g.v. who assembles, builds up and adjusts cast, forged and machined parts to form hand or power presses.

pump maker, pumpwright, *see* fitter, pump.

scraper, setter-out, *see* liner.

setter-up (machinery); (1) a fitter or an erector g.v. who sets up, i.e. assembles, fits together and adjusts, textile machinery in mill; (2) a handyman employed as an erector by scrap dealer, to erect in position second-hand machinery sold to a purchaser instead of being scrapped; cf. setter-up (machinery) (211).

sketch hand, *see* fitter, tube.

slay setter, slay setter; a loom builder g.v. who fits and adjusts lathe or slay in a loom.

special part hand (bosiery machines); an inside hand g.v. who fits to bosiery machines intricate parts such as needles, barlocks, or other special knitting devices of various types of bosiery machines.

spindle backer (textile machinery); a fitter g.v. who assembles and fits together top (running part) to bottom (fixed part) of spindle.

spindle setter; a fitter g.v. who adjusts and re-adjusts textile spindles on spinning machines.

stand builder; stand fitter, table builder; benches-up castings to form sewing machine stands, and mounts table in readiness for fitting of mechanism; does any fitting necessary in building of castings; cf. fitter, sewing machine repairer (244), fitter, sewing machine assembler (279).

stockwright; fits together component parts of metal stocks, or cylinders, of circular textile combs, preparatory to the fixing thereon of card clothing.

straightener, bobbin and carriage, *see* finisher, carriage; sometimes further designated, e.g., late machine bobbin and carriage straightener.

straightener, carriage, *see* finisher, carriage.

straightener, sinker; finisher (sinker making); adjusts and trues up sinkers (knitting machine mechanism) after they have been pressed-out, by filing and hammering them, using also, a precision gauge.

surface table man, *see* liner.

swift builder; an erector g.v. who builds a winding machine having spools or skelets cylinders of steel rods on circular hoops, on which yarn is wound into bales.

table builder, *see* stand builder.

temple maker (loom); a fitter g.v. who assembles and fits together component parts of wide temples, used, on looms, for keeping woven cloth stretched to proper width.

weaver's harness maker and enterer; is engaged in textile machinery works in making and fitting-up loom harness, by means of which warp threads are alternately raised and depressed, loom builder g.v. normally does this work.

wood comb maker; a combwright g.v. engaged on wood combing machines.

211.—TOOL SETTERS.

automatic machine fitter, automatic machine setter; machine setter; a tool setter *q.v.* who adjusts and clamps or screws firmly in position various cams, cutting tools, etc., of automatic or semi-automatic machines; gives instruction to attendants, *e.g.*, machine minder (237), and does running repairs.

capstan setter; a tool setter *q.v.* who prepares capstan lathe when it is used for repetition work and is attended by unskilled or semi-skilled worker; *cf.* capstan lathe hand (200).

die setter (*die box*, etc., making), see tool fitter, press.

fig setter; puts together sections of jig and fixes or sets it with accuracy machine tool, using micrometer in certain cases; usually done by tool setter or automatic machine setter *q.v.* in all but large workshops.

machine setter, see automatic machine fitter.

nickel and turner's fitter; furnace fitter; a tool setter *q.v.* who prepares machine for nickel (279).

rutiny setter; a tool setter *q.v.* engaged in timber, etc., trade, in fixing and adjusting outsets of rotary cutting machines, and in executing running repairs.

screw-setter, see worming fitter (screws).

setter-up, see tool setter.

tool fitter, engine; a tool setter *q.v.* engaged in preparing tools, etc., and fixing and adjusting them in machines in an engine shop, *i.e.* machining and finishing-off shop of large engineering works.

tool fitter, press; die setter (*die box*, etc., making), press tool setter; file dies or press tools in power presses; keeps presses in working order.

turning fitter; a tool setter *q.v.* who makes machine tools; *cf.* tool maker (265).

tool setter, machine tool setter; setter-up, tool fitter, tool maker; fixes and adjusts with clamps and screws, tools, *e.g.*, drills, knives, dies in machines, *e.g.*, automatic or semi-automatic machines, lathes, presses, stamping machines; also sets or fixes gauges, cams, levers and similar mechanism which machine is tended by machine minder who has no knowledge of tool setting; operates machine tool to ensure correct working before handing over to machine minder; sometimes instructs new minder in working of machine; does running repairs and sometimes makes machine tools.

tool setter, press, see tool fitter, press.

turning fitter, see nickel and turner's fitter.

worming fitter (screws), screw-setter; a tool setter *q.v.* who prepares machine for wormer (200) *q.v.*

212.—MILLWRIGHTS.

engine millwright; a millwright *q.v.* who erects engine in proper alignment with pulleys, shaftings, transmission plant, etc.; does not usually erect shafting, etc., but may do so.

mill attendant, rolling mill attendant; a millwright *q.v.* working in rolling mill, etc., who aids with help of gantry or derrick and levels up mills, using lines, *i.e.*, strips of metal for picking under supports.

millwright; a highly skilled and specialised fitter (210) *q.v.* who sets up machines, engines, pulleys, shaftings, transmission gear, etc., having regard to friction, tension, vibration and other factors which aid or prevent efficient working of plant; term originated in iron mills, etc., where water power was used, when tasks of fitting, erecting, gear cutting, etc., both in wood and metal now specialised, were performed by millwright.

zigger (rolling mills, tubes, etc.); roll skifter; erects and fits up rolls or mills used in manufacture of tubes, wire, etc.; dismantles worn rolls and remounts new rolls; sets rolls for new sized work.

roll shifter, see zigger.

213.—ERECTORS', FITTERS', MILLWRIGHTS' LABOURERS.

erector's labourer; lifts, carries, and holds work in position for erector (210) *q.v.*; stands by to hold tools.

fitter's assistant, see fitter's mate.

fitter's labourer; lifts, carries and does rough work for fitter (210) *q.v.* but does not generally use tools; *cf.* fitter's mate; sometimes specifically designated, *e.g.* boiler pipe fitter's labourer.

fitter's mate; fitter's assistant; keeps tools clean and assists fitter (210) *q.v.* by handing him tools or machine parts during fitting; does elementary work such as tightening-up nuts, tapping and screwing, and generally also does precise duties vary with different branches of engineering.

millwright's labourer; fetches and carries for millwright (212) *q.v.* and assists in placing in position heavy shaftings, machine parts, etc., by hauling, lifting or slipping by means of ropes; does not use tools.

Sub-Order 8.—Other Workers.

220.—ANNEALERS, SOFTENERS, HARDENERS AND TEMPERERS.

annealer; assessing furnace man, unrolling man, muffleman, muffle worker, softener; heats metal, or metal articles in process of manufacture in an open fire furnace, to a given temperature, and then allows to cool slowly in order to soften metal or to relieve stresses, or to reduce crystalline structure or to produce all those results; when dealing with small articles, fills off annealing pots, adds oxide of iron and plunges in oven by hand or by pushing them in on truck or carriage; also attends to firing of ovens; opens and closes dampers or gas pressure valves, to regulate temperature; often specifically designated, *e.g.*, blade annealer, cartridge annealer, rim annealer.

annealer (files); heater, from heater; an annealer *q.v.* who softens or anneals blades, files or any other closed furnace; softens or anneals and used files.

annealer (finished wire); an annealer *q.v.* who anneals finished wire to make it soft and ductile; places wire in coils in large pans holding 2 to 5 tons of wire; fits pans into position over brickwork cap in furnace by use of crane; covers top with metal cap; watches condition of wire under heat and straps pan off furnace when operation is judged complete.

annealer, head (galvanised sheet), superheated annealing process and directs men engaged in it; is responsible for proper annealing and for working of furnaces; as for annealer (tin plate).

annealer (nails, bolts, screws); blower, muffleman (nails); an annealer *q.v.* who anneals nails, screws or bolts by heating in muffle or furnace.

annealer, rough (wire); an annealer *q.v.* who anneals bulk of iron or steel between operations of rolling into rod or wire.

annealer (tinplate); piles sheets on iron stand; covers them with an iron box which he takes air-tight by sliding with sand, runs the whole into reverberatory furnace, and after being heated, allows it to cool gradually, to restore softness and pliability to sheets after rolling.

annealing furnace man, annealing man; an annealer, *q.v.*

bluer; (i) see annealer (nails, bolts, screws); (ii) see temperer (fish-bone); (iii) see temperer (needles).

carbonizer, carburizer, see hardener, case.

case hardening furnaceman, see hardener, case.

case, see hardener, case.

cleaner, see hardener's assistant.

gaffer; (i) hardener (saw); a hardener *q.v.* who hardens or "gades" circular saws, by heating them and then placing them flat, between flat iron table, and heavy plate of gaffing press, the former of which lies in cooling or quenching bath; lowers heavy plate on saw by moving power lever; (ii) fits certain types of saws between heated blocks of metal.

hardener; a worker who reduces pressure by lever control and leaves saws to cool slowly under pressure.

hardener; hardens finished iron and steel articles by heating to redness, in a hardening furnace, and quenching by plunging into bath of oil or water.

in some cases, also tempers articles by reheating to a lower temperature and cooling in air; feeds and tends furnace fire; sometimes specifically designated, *e.g.*, as blade hardener, die hardener, file hardener, edge tool hardener.

hardener, case; carbonizer, carburizer, case hardening furnaceman, burner; heats metal articles, iron and steel forgings, casting, etc., in a muffle furnace, together with a constant position of nitrogenous substances, in order to harden outer surface of metal; or cures them with a case-hardening mixture within an iron box, a sagger or other fire-clay vessel, within which they are heated.

hardener (needles); a hardener *q.v.* who places roughly finished needles in closed pans; heats the rods in furnace from which air is excluded, and then plunges them into bath of whale oil.

hardener (ring); a case hardener *q.v.* who hardens metal rings for ring spinning frames.

hardener (saw); (i) heats saw to redness in flat-bottomed furnace and then cools it by immersion in oil; (ii) (small saws, *e.g.*, back saws) heats in a muffle oven in oil or in salt and cools by plunging in oil; (iii) (circular saws), see gaffer.

hardener, scissors; a hardener *q.v.* who hardens and tempers semi-finished scissor blades before they are fitted together; usually done by scissors fitter (193) *q.v.*

hardener's assistant (saw); cleaner; moves levers lifting and closing door of hardener's furnace, when working on large saws; cleans off, after "gaffing" or cooling, excess oil adhering to saws, by rubbing in sawdust.

heater, iron heater (files), see annealer (files).

malleable iron oven man; places white iron castings in metal pail or box with oil covering, or hematite ore dust, to render them malleable; places whole in gas furnace, blocks up furnace door with bricks and fireclay and when process is judged complete, withdraws box from furnace to cool.

muffleman, muffle worker, see annealer.

muffleman (nails), see annealer (nails).

oil proofer (metal work); dips metal parts, quenched in water, back into boiling oil until they attain a specific colour, to anneal them after being stamp pressed.

put man; an annealer *q.v.* who anneals metal articles in annealing pots.

rubber; straightener; places large bundle of hot wires (the length of two needles) held together by two iron bands at each end, on iron-topped table after annealing, with turned iron bar,

coiled a "file," presses on wires and rolls them to and fro, to remove coil curve from wire.

softener; see *annealer*; sometimes specifically designated, e.g., *flyer softener*, *joint softener*, *saw softener*, *straightener*, *see rubber*.

tampers; reheats articles of steel, after hardening, to a given temperature and then cools in such a manner as to make metal hard, soft, tough, ductile, as may be required, i.e., may reduce temperature sharply to a second given point by plunging in oil, and then allow to cool slowly, or may quench quickly by plunging metal into bath of oil or water, or may set articles aside to cool slowly in air.

temperer (fish-hooks); *bluer*; places fish-hooks after hardening in iron cylinder, which he causes to revolve over gas or charcoal until fish-hooks become light blue in colour; then quenches them into a pan of coal.

temperer (needles); *bluer*; spreads needles, after hardening, on pans in oven, or passes them in machine over gas jets.

temperer (saws); beats saw blades, after hardening, on comparatively low temperature, and then allows them to cool slowly, to render them elastic; works at furnace, upon or across flat bottom of which blade is rotated or drawn, while subjected to pressure, or "galled" by weighted top plate; cools blades in open air.

temperer's assistant; feeds saws into tempering furnace and generally assists temperer (saws) *q.v.*

wire taker, steel (wire works); an attendant *q.v.* who subjects steel wire to heating process in sealed tube to soften it for drawing.

221.—ART METAL WORKERS.

art iron worker, *see* **ornamental iron worker**.

art metal fitter; receives forged metal from art metal smith *q.v.* and marks off on metal, positions of holes to be drilled, angles shaped, etc., by his mate; fits parts together into required design with bolts, rivets and screws according to blue print; *cf.* *fitter* (210).

art metal fitter's mate; assists art metal fitter *q.v.* in putting work together and shapes, drills and files metal as required under instructions, using shaping machine, hand and machine drills, punching machine, tapping and screwing stock and dies, files and hammers.

art metal smith; *as for* smith (100) specialising in art metal work, usually in iron, brass and bronze, works from blue prints; cuts metal bar, rod or sheet with cold chisel or for heavier work, hot with cutting tool on anvil; shapes metal with assistance of hammering or striking metal, hot or cold, by means of scroll wrench and horse in a vice, for leaf work, uses top and bottom tools to shape cast metal under hammer; welds heavy work where necessary, *cf.* *welder* (190).

art metal worker; general term covering all the terms in this section, i.e., workers engaged in making ornamental articles from sheet, wrought and strip of bar metal—iron, brass, bronze, copper, e.g., gates, grilles, chandeliers, balustrading, altar rails, church screens, canopies, balconies, benches.

brass medieval furniture maker; an art metal worker, usually a repoussé worker *q.v.* who specialises in brass furnishings or fittings of medieval design.

chandelier ornament maker; an art metal worker, usually an art metal smith *q.v.* who specialises in chandeliers, ornamented with scrolls, leaf work, etc. *

church brass worker; a repoussé worker, *q.v.* who specialises in church brasses; may also perform engraving work, *see engraver* (hand) (216).

leaf beater; an art metal smith *q.v.* who specialises in production of leaf work; uses top and bottom tools on anvil and shapes sheet metal under assistance of hammering machine for very light work, uses a lead block on which to strike.

medieval metal worker, medieval smith; an art metal smith *q.v.* who specialises in ornamental gates, grilles, lift screens, brackets, etc., of medieval design.

modeller, *see* **repoussé worker**.

ornamental iron worker; art iron worker; an art metal worker, usually an art metal smith *q.v.* who specialises in ornamental iron work, e.g., gates, railings, screens; sometimes more specifically designated, e.g., *medieval iron worker*, *eccelesiastical iron worker*.

repoussé worker; *modeller*; makes ornamental name plates, shields, fire screens, church brasses, brass furniture, etc., from sheet copper or brass; works from blue print or design; shapes sheet metal by cutting with hack saw or with chisel and hammer; beats and raises surface of metal to required design on a pitch or lead block with chisel's hammer, chasing tools and punches; sometimes uses a power-driven vibrating snarling iron.

saw piercer; cuts a perforated design in sheet iron, brass, copper or bronze with a fret saw.

222.—BOILER MAKERS, PLATERS AND IRON SHIPWRIGHTS.

hammer (shipyard), *beam hoister*, *see* **erector, beam**.

beam maker; a plater *q.v.* who constructs beams or girders of plates, angle iron, etc., riveted together.

bender, plate bender; a plater *q.v.* bending plates into circular and other shapes for boilers, etc.; sets plate in hydraulic machine and applies power; superintends hoisting of plate in furnace when plate is bent hot; *cf.* *plate bender* (223).

bendyer, frame; ship frame bender; frame turner, *ship frame setter*, *ship*

frame turner; bends, or "turns," to shape, angle iron framework forming skeleton of ship to which ship plates are subsequently riveted; receives beaded angle iron (girders) from lapses or furnace, places them on perforated iron floor in which pegs can be inserted to indicate required curvature of angle iron; causes residents to hammer girder to make it bend round to curvature of pegs; prevents buckling of angle iron by hammering on top of angle iron at intervals during bending process; *cf.* *angle iron bender* (160).

boiler maker; (i) general term for any man engaged in the manufacture of boilers, including platers, riveters (225), frame turners, angle iron smiths (190), etc., *q.v.*, (ii) sometimes loosely applied to platers and other sheet iron workers engaged in other industries (principally shipbuilding), who belong to same trade union as boiler makers proper and may be engaged on iron plate work, e.g., cement kilns.

boiler pipe expander, boiler tube expander; drives end of pipe or tube with hammer, a special tool or tube expander to expand end of pipe or tube so that it fits closely into flange, causes rollers in tool to revolve by turning spanner as tool is hammered in, may insert end of tube into hydraulic tube expanding machine for same purpose; usually aided by boilermaker *q.v.*

boiler tube fitter; boiler tube bender; cuts length of tube required, in tube cutting machine, fits in position and

expands and (*see* boiler tube expander); may also brass or weld tubes in position; *cf.* *braser* (222), *tube welder* (206).

boiler (boiler); a plater *q.v.* who makes casings of boilers from light steel plates and angle iron.

chalker, *see* **marker**.

chimney maker (boiler); an iron plate worker *q.v.* making boiler chimneys of riveted steel plates.

cistern maker (plate); an iron plate worker *q.v.* making cisterns, tanks, condensers, etc., from plates.

collarman (shipyard); a plater *q.v.* fixing water-tight collars on openings in bulkhead or vice versa, sometimes done by iron welder (275) *q.v.*

erector, beam; *bender* (shipyard), *beam hoister*; fixes steel beams of ship in position on skeleton framework, directs hoisting and lowering operations by signaling to crane driver; guides beam to place and secures with bolts ready for riveting fast; is usually also a frame erector *q.v.*; works under direction of shipwright (160) *q.v.*

erector, frame; *framer*; *as for* beam erector; erects steel frame bars of ribs of ship, building them up from double bottom; usually also does work of *bender*, *vice versa*, *q.v.*; works under direction of shipwright (160) *q.v.*

framer, *see* **erector, frame**.

frame turner, ship frame turner, *see* **bender, frame**.

frame turner (boilers and tanks); cuts and bends (see turns) angle iron for frame work of boilers and tanks, using forge and hand tools; *cf.* *angle iron smith* (190).

funnel maker (ship), *ship's funnel maker*; a plater *q.v.* who makes large funnels for ships.

iron plate worker; *iron plater*; cuts iron plates on table of power shears; bends, in bending machine or with hammer on block shape; rivets and fits up iron plates generally in connection with constructional iron work; *cf.* *plater*.

iron ship maker, *see* **mast maker** (plate).

marker, marker-off, maker-out (boilermaking and shipbuilding), *chalker*, *temperer*; a plater *q.v.* who chalks or marks out plates or sheets for shearer and puncher (279) or drillor (300) *q.v.* by use of template or by measurements taken from blue prints.

mast maker (plate); *iron ship maker*; a plater *q.v.* specialising in construction of masts, derricks, pillars, etc., from steel plates and angle iron.

patcher (boiler making), *boiler patcher*; a plater *q.v.* who carries out repairs by fixing patches on boilers and similar articles; cuts away cracked or broken plating with chisel or oxy-acetylene flame; marks out for drilling; may drill or punch rivet holes; rivets on patch and rivets up.

plate fitter; fits in position, he bolting in one or two places, plates for boilers, ships, etc., prior to drilling, punching or bolting up.

plate leveller, *see* **straightener, ship plate**.

plater; (i) marks out, from drawings or templates, shape of plates to be used in making boilers, tanks, hulls, etc.; carries out machine processes by which they are cut, sawn, straightened, bent, roughly shaped and punched or drilled with rivet holes, fits up in readiness for riveter (255) *q.v.*; sometimes specifically designated, e.g., *beam plater*, *boiler plater*, *bridge plater*, *plant furnace plater*, (ii) general term including puncher (279), shearer (279), puncher and shearer (279), templater, furnace-man (171), plate bender, bender-up (225), frame setter (160), roller trim (225) *q.v.*

plater (domestic engineering); makes ventilators, parts of ventilating or heating apparatus and other similar articles, of heavier gauges than those

made by air pipe maker (266) g.v. r.e. of thicker metal, plate instead of sheet.

plater (gun mountings); a plater g.v. working on shields of gun mount, which protects gun's crew in action, or on "spray shields," which shelter crew in heavy seas; supervises cutting of plates, routing or bending to shape and riveting in position.

plater, heavy; a plater g.v. using heavy plates for boiler shells, furnace and combustion chambers, etc.

plater, inside, jobbing plater; a plater g.v. working on any plating job in interior structure of ship.

plater, iron, see iron plate worker.

plater, light; a plater g.v. working on smaller and lighter shells, tanks, etc.

plater, outside; shell plater; a plater g.v. working on outside, or shell, of ship.

plater, stern; a plater g.v. who prepares and works stern plates, which usually require heating in furnace and bending to fit stern of ship.

screw-er-up; closes up nuts on bolts in structural steel work on ship in preparation for riveting; usually done by plater or by riveter (253) g.v. of ship frame setter, see bender, frame.

shipwright (Govt. dockyard); as for plater g.v. marking, shearing, punching and rolling plates generally used in war contracts.

straightener, ship plate; plate leveler; takes dents out of, or straightens ships plates by hammering with heavy mallet on metal slab or by passing through power-driven rollers, if plates are thick; in latter case, raises plate in chains of overhead traveling gear.

strapper (shipyard); a plater g.v. who fits butt straps in position over joints in ship's plates.

stretchier, hydraulic plate machine; hydro plate stretcher; a plater g.v. stretching sheets, plates, etc., in hydraulic machine; fits gauge in machine and adjusts pressure on load of machine; controls hydraulic power by valves and levers.

tank maker; a plater g.v. specializing in making iron and steel tanks.

templater, see marker.

tuber, boiler tuber, see boiler tube fitter.

tuber, engine, as for boiler tube fitter.

223.-BOILER MAKERS' AND PLATERS' LABOURERS.

conveyor, see labourer, boilermaker's.

hanger-up, see plater's tackle man.

helper, boiler maker's; boiler's helper, see labourer, boilermaker's.

helper, plater's; shipyard helper; helper, plater's labourer, ship fitter's labourer; lifts and carries plates; strikes for and generally assists plater (222) g.v.; cf. striker (150).

humpster, see helper, plater's.

iron carrier, see labourer, boilermaker's.

jobber (boiler making), see labourer, boiler maker's.

labourer, boiler maker's; boiler shop common labourer, boiler shop labourer; boilermaker's helper, boiler's helper, conveyor, iron carrier, jobber; does heavy, unskilled labouring work in boiler-maker's shop, e.g. hauling, hoisting, dragging, etc.

labourer, boiler tube fitter's; tuber's labourer; does unskilled manual labour in connection with fitting tubes into boilers and assists boiler tube fitter (223) g.v. generally.

labourer, plater's; ship fitter's labourer, see helper, plater's.

labourer, tuber's, see labourer, boiler tube fitter's.

plate bender (ship building); a plater's helper g.v. who bends ship plates to desired shape, in hydraulic machine, under direction of plater; cf. plate bender (222).

plater's assistant; assists plater (222) g.v. in his work.

plater's tackle man, shell plater's tackle man; hanger-up; a plater's helper g.v. who hoists finished plates to work of ship and fixes them temporarily with bolts, ready for riveters; on N.E. Coast work usually done by plater (222).

porter bar man (boiler making, ship building); (i) turns over large plates for ships, boilers, etc., or large forgings, during forging operation, with porter bar, i.e. a long steel bar; (ii) holds porter bar, used to control work in fire and on anvil, during welding.

rollerman; a plater's helper g.v. who passes plates through rolling machine, before bending or during other operations of preparing them for hanging up.

224.-BRASS FINISHERS AND TURNERS.

bobbin maker (huss); general term for any worker engaged in pressing, stamping, turning, machining, assembling or finishing brass bobbins.

brass capstan hand; a capstan lathe hand (200) g.v. working in brass.

brass finisher; general term for any worker employed on finishing brass castings or stampings, including brass turner, filer (228), burrisher (228), polisher (228), drillor (200), solderer (228), fitter, etc. g.v.

brass finisher (bobbins); finishes component parts of brass bobbins by turning off roughness in power-driven lathe and reducing to correct dimensions in milling machine; positions on buff in lathe, assembles and fits parts together with nuts and screws.

brass fitter; fitter-up (brass); assembles and fits small brass parts, making any necessary adjustments with file, etc., if necessary, solders them together; is engaged entirely as bench and vice.

brass fitter, angle; cuts and fits brass angle work, using hack or circular saw and nutre box; sometimes does brazing or soldering of angles.

brass fitter, wagon; a brass fitter g.v. who specializes in fitting brass furniture to wagons, rail coaches, etc.

brass lathe hand, brass lathehand, see brass turner.

brass letter carver, brass letter cutter; traces letter or design on surface of brass plate, outlines it with graving tool, by hand, and cuts out letter, by routing machine; finishes by sand, with file, etc.; may also ornament metal by carving or cutting the surface according to design, with hand or machine tools.

brass machinist; feeds and feeds automatic or semi-automatic machine which makes brass goods required in large quantities, e.g. screws, chains, nuts, bolts.

brass turner; brass lathe hand, brass lathehand; operates lathe for machining brass articles to cylindrical form (externally internally or both), and cuts threads on brass articles, and brass turner, axle break; axle cap brass turner; a brass turner g.v. who turns on lathe, faces and threads brass caps for axle bushes of road vehicles.

brass weight finisher; (i) turns on lathe, and files, as necessary, castings of brass weights, testing from time to time in balance against standard weight; (ii) machines small weights on capstan lathe.

brass weight maker; a brass turner g.v. turning weights from brass rods.

brass maker (for bearings); turns or mills out on lathe, from phosphor-bronze or brass linings or bushes for machine or engine bearings.

fitter-up (brass), see brass fitter.

225.-CARD CLOTHING.-CLOTHIERS, SETTERS, NAILERS.

card clothier, see card nailer.

card dresser; card finisher, dresser; (i) (card clothing factors) operates and adjusts machines having very fine adjustments, to correct the angle or setting of card clothing wires and to grind wires to even length by means of emery wheels; cf. grinder (card clothing) (237); (ii) (beetle nail machine) inspects card clothing fast by foot, and sees that material is perfect for working purposes; uses small tools and files to adjust wires to correct length.

card finisher, see card dresser.

card nailer; card clothier, card setter-in, nailer (card clothing); scraps-on were card clothing from scribbles, carding engines, etc., and replaces it with fresh; directs winding of card clothing fillets on to carding machine cylinders which is revolved mechanically, and secures fillets by driving nails or tacks into wooden pieces set in cylinder; may be a master man, contracting direct with textile mills, and himself working, or may be employed by card clothing manufacturer.

card setter, card teeth setter, card setting machine minder, see machine attendant.

card setter-in, see card nailer.

circle (comb making); fixes by hand, by means of powerful adhesives, fillets of card clothing to small cylinders, or flats forming a "circle." In combing machines used in fine cotton spinning, is highly skilled and is usually employed in large cotton spinning and weaving mills.

circle setter; fixes fillets, already containing card clothing, in position on a carding machine, by bolting them with nuts on to a revolving frame-work, the whole when completed forming a circle of fillets; is always employed in textile mills, and is card clothing manufacturing establishments; cf. circle setter (278).

comb leather maker; gill leather maker; (i) attends machine, or machines, for setting wire teeth into a leather foundation for making textile comb, etc., clothing; (ii) as for machine attendant.

dresser, see card dresser.

fitter-in, fitter-up (card teeth setting); replaces defective or missing wire card teeth by threading new pieces of fine wire, by hand, into the strips of card clothing, and by cutting wire to correct length by means of pliers; sometimes also pares edges of card clothing foundation, with sharp knife, to width required.

flat clothier, flat cloth worker, see flat stretcher.

flat stretcher, card flat stretchers; flat clothier, flat cloth worker; adjusts and tensions the textile fillets, chains and fillets, a machine which mechanically stretches card fillets, and clamps them to metal flats.

gill leather maker, see comb leather maker.

machine attendant, machine tender; card setter, card fitter, card nailer; setting machine tender; attends and makes very fine adjustments to machine, or series of machines, which "set" into textile foundation of card clothing, varying lengths and thicknesses of fine wire to form teeth of card clothing; places coils of wire on reels, threads wire into feed and through cutter die; places roll of cloth on spindle and feeds into machine; watches for any faulty work.

nailer (card clothing), see card nailer.

teeth setter; an assistant to card nailer g.v. who may be learning the trade; rarely so called, as work is usually done by general hand supplied by textile mill to assist card nailer.

226.—CONSTRUCTIONAL ENGINEERS (not professional), STEEL ERECTORS, STRUCTURAL IRONWORKERS.

bench hand (patent roofing); prepares patent roofing for fitting in position by cutting rods and angles from to size in machine shears, drawing holes, bending to shape, etc.; works mainly at bench with vice, wrench, files, drills, etc.

constructional steel worker, constructional steel erector; cuts, saws, straightens, bends, roughs shapes and punches or drills, by aid of various machines, iron or steel girders and plates used in constructional work.

engineer, constructional; general term for skilled workers engaged upon erection or design of structural steel work, e.g., bridges, steel buildings, including erector, fitter, etc.

engineer, iron roofing; roofing engineer; sees roof piler.

erector; constructional erector, fitter, fitter-up; fits sections into position and builds up structure, e.g., door frames, stairways, roofing, from blue prints; works at bench to carry out fitting operations, e.g., bench hand, fitter (226).

erector, galvanneal roofing, sheeter, sheetor and erector, zinc roofer; cuts galvanneal sheeting to size, with hand and machine shears; places it in position on roof and rivets or screws it as required.

erector, gas holder; gas holder fitter; cuts of a gang of iron erecting a gas holder; slings and holds up plates, etc., in position and holds together in readiness for riveter (255) etc.

erector, girder; steel girder erector, iron work erector; erector (steel); places in position, with assistance of crane, steel girders in readiness for riveters (255) etc.; directs hoisting, swinging and lowering operations by signals to crane driver; much of this work is usually done by labourers.

erector, roof; iron roof erector; builds up of all steel girder structure by bolting in position framework and plates prepared by roof piler, etc.

erector (steel); see erector, girder.

eye ribber (ferro concrete); fixes in position with wire, iron or steel rods, prior to erection of shuttering in construction of ferro-concrete buildings.

fitter, constructional fitter, see erector.

fitter, gas holder, see erector, gas holder.

fitter, iron (building trade); erects framework of structure; fits various components, girders, columns, etc., on site; may also do work of blacksmith (156) in altering component parts.

fitter-up, see erector.

iron roofer, see erector, roof.

patent glazing, fixer, patent roofing glazier; assembles and fits together metal framework and glass of patent glass roof; with assistance of labourers, raises framework into position with tackle and bolts; details elements all joints; lines glass in frame with cement.

roof piler; iron roofing engineer, roofing engineer; marks out shape and size of steel plates and framework used in constructing roof of all-steel girder structures, from blue prints; measures, fits and marks out metal for machine man (200) etc. and puts together ready for riveter (255) etc. in shop.

sheeter, sheetor and erector, see erector, galvanneal roofing.

zinc roofer, see erector, galvanneal roofing.

227.—COPPERSMITHS.

come maker (felt hat manufacture); a coppersmith or a making copper cages on which fur and felt hats are formed.

copper pen smith; a coppersmith etc. specialising in making copper pens.

copper pipe worker; a copper sheet, with hand or machine shears; forms over a mandrel to shape of pipe with hammer or mallet, or hammers to shape on a bellows block; leaves joint; obsolete term as copper pipes are, in modern practice, drawn by copper tube drawer (206) etc.; pipes of peculiar shapes or unusual measurements usually made by coppersmith etc.

copper sheet worker; a coppersmith etc. who specialises in making copper sheet goods.

coppersmith; makes copper vessels, pipes and fittings for ships, distilleries, railway shops or general engineering work; cuts copper sheet to shape with hand shears, snips or guillotine, and copper plate with shearing or circular cutting machines; bends light pipe or sheet by hand, and heavy pipes or plate in bending machines or hydraulic press; fits pipes with resin or lead before bending, when bending sheet for boiler, uses rolling machine; shapes metal by beating with hammer on anvil or bolster, or hollow block, usually working from blue print but occasionally using wooden patterns; sews scales for certain goods, in setting machine, brass or solder joints or attaches cast copper flanges and fittings by heating with gas blow-pipe or on open hearth or forge, see brazer (242); planishes, i.e., smooths and polishes, sheet goods by hand, hammering with smooth-faced hammer on anvil, or by holding on steel heads of special shape under power hammer; drills and punches holes as required with hand drill or with drilling and punching machines; rivets joints or attaches fittings by use of riveting tool on anvil head, may also attach fittings with bolts, sometimes done by fitter (210) etc.; also uses inside and outside of copper vessels at times; pits, see copper tinner (233); sometimes, specifically designated, e.g., brewers' coppersmith, marine coppersmith.

tube smith; usually a coppersmith etc. making and fitting copper tubes in steam locomotives.

228.—CUTLERS.

assembler (pen knife, pocket knife, spring knife), see cutler, pen knife.

cutler; (i) assembles blades, bolsters, and handles of cutlery; after drilling on drilling machine, truing and file parts, and cleans article on emery wheel or doily; (ii) general term covering cutlery workers engaged on all processes subsequent to wet grinding and rough glazing.

cutler, bayonet; assembles and puts together parts of bayonets; files parts to fit correctly and rivets where necessary.

cutler, fork; steel fork cutler; fork putter-together, steel fork putter-together; assembles and puts together parts of forks; files prongs and sides of forks after they have been stamped out, and before they are nickelled or electro-plated.

cutler, pen knife, pocket knife, spring knife; assembler (pen, pocket, spring knife), pen knife setter-in, pocket knife setter-in, spring knife setter-in; an assembler or putter-together (278) etc. puts together blades, bolsters, linings, springs, etc., of penknives, pocket knives, spring knives, using hand tools and machine drill; adds corkscrews, files, etc., where these are included; sometimes also repairs hair and puts a final buff or polish on finished article.

cutler, surgical; shapes surgical knives in forge, see forger (190); files knives in forge, see forger (190); files by heating blades in furnace and quenching in water or oil; tempers blades by reheating, grinds on emery wheel and polishes on doily; also buffs them, if they are not all in one piece.

cutler, sword; sword maker, sword fitter; assembles parts of sword, hilt and handle; polishes blade on buffing wheel, and mounts embellishments.

hafter; moulder; shapes blades of cutlery to fit by filing, shaving, etc.; hones, and polishes hafts, fits tang into bored haft either with resinous cement or, if of xylonite, by driving on, or by riveting scales to flat tangs; sometimes specifically designated, e.g., docket hafter, fork hafter, table knife hafter, pen knife hafter.

hafter, razor; adds piece of lead, or other material used to add sport handle scales; rivets on plate in position and smooths by filing; sometimes done by razor setter-in etc.

moulder, see hafter.

moulder, sword, see cutler, sword.

putter-together, fork; steel fork putter-together, see cutler, fork.

setter-in, pen knife, pocket knife, spring knife, see cutler, pen knife.

setter-in, razor; sets blade in "scales" (two halves of handle) and fastens them together with rivet or pin, adding lead weight for correct balance; polishes and finishes; sees that blade fits properly and works smoothly; sometimes whets blade on grindstone.

sword fitter, see cutler, sword.

229.—CYCLE-MAKERS, FITTERS AND MECHANICS.

bicycle maker, see cycle builder.

brake fitter; a cycle fitter etc. who specialises in fitting and adjusting brakes to cycles, etc.

cycle assembler; cycle builder; assembles component parts of a cycle, e.g., frame, forks, chain wheels, pedals, wheels, and adjusts for smooth running; works entirely by hand, using gauges, screw driver, file, etc.

cycle builder; bicycle maker; (i) in large works, see cycle assembler; (ii) in small workshops, makes and assembles cycle throughout; cuts steel tubing to size with hook saw to make frame and forks, fits to lugs and brackets, pins and brace joints, see frame builder; builds wheels, see wheel builder (378); makes handle bar, see handle bar builder; makes, repairs, and nickel plates frame, see nickel plater, and other parts, see picker (250), jaggoner (241) and wheel piler (382); assembles component parts and makes adjustments for smooth running, see finisher; (iii) general term for makers of component parts, e.g., frame and fork, wheels, handle bars, seat pillar.

cycle engineer; repairs cycles, see repairer, and builds cycles to specifications, see cycle builder.

cycle mechanic; general term for any man who repairs or erects cycles, including cycle assembler, brake fitter, cycle repairer etc.

finisher, cycle finisher, cycle finishing assembler; fits on all accessories of a cycle according to specifications, e.g., lamp brackets, brakes, saddle, pump ellipse, saddle bag; makes minor adjustments with file, etc., though with standardised fittings, very few alterations are necessary.

fork builder, cycle fork builder; a frame builder etc. who specialises in building forks.

frame builder, frame and fork builder, frame fitter; cuts steel tubing to required lengths; drills small holes through lugs, fork crown, bottom bracket, back fork ends, etc., and through tubes with machine drill; assembles parts on a bolder or jig; inserts small steel peg in each hole to keep permanently in position; brazing or welding; may sometimes braze joints, see frame brazer (383) or welder (349); sometimes specifically designated, e.g., cycle frame builder.

frame setter; sets brass frame into holder or jig, and tests proper alignment against points on holder; beats any part out of alignment by means of blow pipe and beads by hand, when soft enough, to correct shape.

handle bar builder, handle bar fitter; a cycle builder *q.v.* who specializes in cutting, bending and brazing steel tubing to make handle bars; may also pickle and nickel plate bars in small works.

motor cycle fitter; a frame builder *q.v.* making motor cycle frames.

motor cycle maker; general term for workers building and erecting framework, engine, etc., of motor cycles, including frame builder, engine fitter (215) *q.v.*

repairer, cycle; repairs; makes adjustments and minor repairs to damaged cycles; repairs punctures; rents new parts; is usually also a retail dealer in cycles and accessories.

tricycle maker, as *for* cycle builder.

230.—DIE CUTTERS AND

SINKERS.

bookbinders' tool cutter, bookbinders' tool engraver; a die cutter *q.v.* who cuts, in brass, tools used by bookbinders for embossing purposes.

brand cutter, see mark cutter.

copper roller engraver; a die engraver who engraves lettering, monograms, etc., on copper rollers.

die cutter; cuts die in relief out of block of mild steel, using hammer and fine chisel, lathe and milling or routing machine and following a design shown in plan, elevation and section; *cf.* die sinker and die engraver.

die engraver; (1) a die cutter *q.v.* who cuts designs or letters in intaglio on metal dies with graving tools, for colour printing, stationary embossing, etc.; work is similar to that of the sinker *q.v.* (2) a die cutter who is not cut so deeply; (3) cuts designs or letters in relief for typefounding, printing wheels, etc., using hand graving tools or by operating an engraving or pantographing machine.

die sinker; (1) a die cutter *q.v.* who cuts die in intaglio in mild steel blocks; (2) engine die sinker; fixes steel block and plaster model or pattern of die to be sunk, in power-driven die sinking machine which works on principle of pantograph; guides pointer of machine over outlines of pattern; finishes die by removing rough edges, cleaning angles, etc., with fine chisel and hammer.

die sinker's machinist; (1) operates routing or milling machines to remove surplus metal from die; *cf.* milling machinist (200); (2) operates die sinking machine under direction of the sinker *q.v.* who sets block, tool and pattern.

engine die sinker, see die sinker.

heraldic chaser, heraldic engraver; a die engraver *q.v.* who engraves dies in reverse or relief, required in making heraldic devices, using hand tools.

letter cutter; a die cutter *q.v.* who specializes in cutting letters in dies by pantograph machine.

letter finisher; removes burrs and cleans corners, etc., in machine cut letters with hammer and fine chisel.

mark cutter, mark maker; stamp mark cutter, stamp mark engraver; brand cutter, stamp cutter, stamp maker; as *for* die cutter, cutting in reverse relief letters and other designs in steel and copper stamps for stamping or branding; uses non-routing machine to remove superfluous metal, if lettering or design is to be cut in high relief.

mould cutter, mould maker (artificial teeth); cuts brass or gunmetal tooth mould to shape of tooth required with grooves, fine chisel and hammer; smooths and polishes moulds by rubbing with a small stick of Arabian stone.

punch cutter, punch engraver (typefounding); a die cutter *q.v.* who cuts letters, figures, etc., in relief on steel punches, by hand tools or by use of electrically-driven proofing or pantograph machine tool; the punches are subsequently used to impress type matrices in brass, copper or phosphor bronze.

relief engraver; a die engraver *q.v.* who cuts only in relief with hand tools.

seal engraver; a die sinker *q.v.* who specializes in cutting in reverse intaglio designs or monograms for seals in gold, silver, stone, etc.

stamp designer; a mark cutter *q.v.* who designs and executes trade, proprietary or other marks, usually for use in making textiles; sometimes specifically designated, *e.g.*, blouse's stamp designer, copper stamp designer.

stamp cutter, stamp maker, see mark cutter, sometimes specifically designated, *e.g.*, blouse's stamp cutter, copper stamp cutter, endearing stamp maker, steel stamp cutter.

231.—DRILLERS (HAND, PNEUMATIC OR ELECTRIC).

bear puncher; a hydraulic driller *q.v.* who controls handles of hydraulic machine called a "bear" to punch holes in ship's frame, dock beams, channel bars, etc.; usually done by hole borer *q.v.*

borer, hole borer (shipbuilding); cutter, hole cutter; a hand driller *q.v.* who cuts with brace and drill, holes which it has not been possible to punch in previous stages; *cf.* bear puncher.

cutter, hole cutter (shipbuilding); see borer.

driller; general term to cover any worker cutting circular holes in metal, with a portable hand or machine tool, including hand driller, machine driller, *q.v.*; *cf.* driller, drafting machinist (200); sometimes specifically designated, according to kind of drilling machine used, *e.g.*, air driller (pneumatic), electric driller, hydraulic driller, pneumatic driller; or according to article worked upon, *e.g.*, anchor driller, body driller (vehicles), frame driller (ironing), shell driller (boiler making).

hand driller; marks points at which holes are to be drilled in metal, using rule, dividers, scribbling tools, etc., from blue prints; selects and fits drill in brace according to diameter of hole to be drilled; turns brace by hand, driving drill through metal by pressure of body against brace; for drilling small holes with accuracy, may use a bow drill.

machine driller; as *for* hand driller *q.v.* using a portable drilling machine driven by electric, hydraulic or pneumatic power; may fix and use a jig to determine points at which holes are to be drilled.

screw (small arm); a hand driller *q.v.* who reamers out screw holes in small arm parts and fits covers, using a belly brace, drill and reamer.

232.—FILE CUTTERS.—(HAND OR MACHINE).

edge cutter; a file cutter (hand) *q.v.* who cuts teeth on edges of files.

file cutter (hand); cuts teeth in annealed file blank by striking sharp slanting blow with a hammer and broad chisel, on an anvil or stock.

file cutter (machine); clamps annealed file blank on moving table of power-driven machine, which cuts file teeth; watches work of machine and makes necessary adjustments of reciprocating chisel.

file cutter; levels the edges of all except small saw files; either fixes file in vice and cuts bevel with another file, or holds edge of file against power driven emery grinding wheel.

rasp cutter; a file cutter (hand) *q.v.* who makes cutting edges on rasps with sharp pointed chisel and hammer, as distinct from broad chisel.

rib file cutter; (1) a file cutter (hand) *q.v.* who cuts files with small chisel in such a manner that a series of ribs extend along its length; (2) a file cutter (machine) *q.v.* who sets and uses machine to make rib file.

taker-again; a file cutter (hand) *q.v.* who fills up or completes, by hand cutting, any defective cuts or omissions in machine-cut files; works on hand file-cutter's stock.

tanger (razor); a file cutter (hand) *q.v.* who cuts file marks on back of tangs of razors; *cf.* tanger (cutlery) (70).

233.—FILERS.

edge tool finisher; a filer *q.v.* making smooth, rough edges or "fash" of edge tool forgings.

finisher; files and scrapes, with hand tools, surface of pipes, machine, engines, and parts needing rough finishing, where this is not done by machine; *cf.* facer (300).

filer; dresses, with appropriate files of various "cuts" and shapes, metal articles that have been cast, forged, pressed, stamped, wrought, etc., in order to remove rough edges (fins), cutting flares, the excess of metal after brazing, etc., to make smooth, or to prepare for buffing and polishing where those operations are necessary; works, usually at bench and vice, using both hands, except in case of small files, to drive file steadily in straight line, without "heaving"; in drawing-filing to finish surface, draws file evenly across surface of article; sometimes specifically designated by the article, *e.g.*, action filer, armature filer, axle filer, barrel filer, doctor filer (textile machinery), socket filer, etc., or by metal worked upon, *e.g.*, brass filer, copper filer, etc.

filer, file dresser; files off superfluous metal from needle stampings; breaks apart pairs of needles and smooths heads, holding work during operations in hand clamp.

filer, foundry filer; removes unevenness from castings by hand filing; files down rough castings, "runces" and "rises" left on casting after most of excess metal has been removed by breaker-off (183) *q.v.*; *cf.* fettler (183).

filer, key; files wards in blank of key according to specification.

filer, odd (cycles); see odd worker (cycles).

filer, saw; sharpens teeth of saw by hand, with file, immediately after setting.

filer, scroll; files and cleans surfaces of dies after they have been roughly cut by die sinker (230) *q.v.*

filer, tool; keeps profile and other tools used in pottery making, in good condition, using a hand file; often done by potter's fitter (210) *q.v.*

filer and float; a filer *q.v.* who roughs files brass, bronze, etc., castings to remove casting "frase", and then works over castings with a single cut file called a "float."

filer and scraper (brass musical instruments); a filer *q.v.* who files and scrapes, with knife, joints of brass musical instruments to make perfectly smooth; also files edges and scrapes metal to vary thickness in order to improve tone.

filer at notching machine (iron and steel rollers); a filer *q.v.* who files away rough edges of notches, cut in steel rolls by notching machine.

filer at planer; a filer *q.v.* who files away rough edges left on metal by planing machine.

finisher; a flier *q.v.* who smooths or finishes off parts of machinery, engines, etc., inaccessible to machine tools, by hand filing.

floater; a flier *q.v.* who works over surface with a dead smooth or dead file, to produce a smooth surface; sometimes specifically designated, *e.g.*, tube floater.

jointer (outlet); fixes two or more blades in a vice and files down edges till blades match one another; marks inside of each blade with corresponding numbers, and marks with a punch spot where screw hole is to be made *key cleaner*; a key flier *q.v.* who files smooth the barrel and wards of cast keys.

odd worker (cycles); odd flier; finishes parts of cycles, with file, etc., at a bench.

shankier (fish hooks); file, by hand, tapered shanks of fish hooks held in small vice at bench.

234.—GALVANISERS.

coater (wire); a dipper *q.v.* who dips coils of wire in zinc spelter; *cf.* wire galvaniser.

dipper (galvanized sheet); supervises feeding of galvanizing machine by feeder (279) *q.v.*; regulates heating of pots; cleans pots from time to time; may in small works himself feed sheets into machine.

dipper (hollow-ware, wire goods, etc.); *finisher*; takes metal articles to be galvanised in tanks and immerses in a bath of zinc spelter; twists it about to ensure equal coating; lifts out and shakes to remove excess of zinc; drops into bath of water.

galvaniser; (i) general term for any worker in galvanizing works, including dipper, pickler (280), feeder (279) *q.v.*; sometimes specifically designated, *e.g.*, pipe galvaniser, tube galvaniser, wire galvaniser, wire netting galvaniser; (ii) obsolete term for chemist hand responsible for both pickling and galvanizing shops.

tanker, *see* dipper (hollow-ware).

235.—GASFITTERS.

district fitter; a gas fitter *q.v.* who fits up customer's fittings and lays and connects up iron piping in houses, within a prescribed area of gas company.

fire fitter, *gas fire fitter*; a gas fitter *q.v.* fitting gas fire in consumer's premises.

gas and water engineer; a gas engineer *q.v.* who is also experienced in plumbing and installing water pipes.

gas engineer (hot gas works); lighting engineer; plans lay-out of pipes, jets, taps, etc., for supplying houses, shops, gas engines, etc., with gas and superintends erection of suction plant; is usually himself a gas fitter *q.v.*

gas fitter; cuts iron gas piping to required lengths with buckam, or special pipe cutting tool; taps ends of pipes for screwing into sockets for T-bends, joints, etc.; fixes piping in customer's premises, with staples; fits burners, taps, meters, stores, gas fires, etc.; lays storage and executes repairs; is sometimes also a plumber; *cf.* plumber and gas fitter (232); sometimes specifically designated, *e.g.*, gas lantern fitter.

gas lineman, *gas lineaman* (railway); a gas fitter *q.v.* installing, or repairing pipe lines for supplying gas to gas lighted signals, signal boxes, stations, etc.

lighting engineer (gas), *see* gas engineer.

meter fitter; a gas fitter *q.v.* who fits meters, as required, in gas system.

stove fitter, *stove fitter*, *gas stove fitter*; a gas fitter *q.v.* who puts in and connects up gas stove and makes necessary repairs.

stove maintenance fitter; a gas fitter *q.v.* employed in gas company's or local authority's workshop, who fits

together stoves, that have been returned for repair, after renovations have been made; may also repair stoves on customer's premises; usually done by gas fitter or stove fitter *q.v.*

236.—GAS FITTERS' LABOURERS.

fitter's mate, *gas fitter's mate*; assists gas fitter (235) *q.v.* in all semi-skilled work of gas fitting, *e.g.*, tapping of pipes, holding up work; also bands tools, fetches and carries material and tool bag, usually a youth in process of learning trade of gas fitter.

gas fitter's labourer; does labouring work for gas fitter (235) *q.v.* carrying pipes, gas fittings and tools, pushing truck with gas fire, stove, etc.; usually has no undertaking to be taught trade.

237.—GRINDERS.

comb mooter (textile machinery), *see* grinder, comb.
cutler, *titinrant*; travelling cutler, *see* grinder, travelling.
dresser, *how*; *how* grinder; removes roughness from or grinds outside of bows (rings for comb and fingers) of articles by holding against a fine emery grindstone; grinds inside of bows on a fine emery hand wheel as passed through bow.

dresser, *comb*; *comber dresser*; smooths and finishes off roughly cut combs for textile combing machines.

grinder, *holding*; against *emery wheel* and also against *glazing wheel*.
dresser, *plate dresser*, *plate mill dresser*; removes blemishes from surface of iron or steel plates or sheets by holding plate to power-driven emery wheel, or portable wheel to plate.

emery bobber (foundry), *see* grinder, castings.

emery steel polisher (cycles); removes or grinds off rough edges of cycle parts by holding against revolving emery wheel.

emery wheeler (foundry), *see* grinder, castings.

emery wheel worker (cycles); holds articles, usually castings and stampings, against emery or abrasive wheel, to grind it roughly to required shape.

glaser (foundry), *see* grinder, castings; *cf.* glazer (238).

grinder; trues up, shapes, or makes smooth; metal work, *e.g.*, castings, implements, tools, cutters, etc., by applying work to grind-stones variously compounded of emery, alundum, corundum, carborundum and other aluminous or siliceous carbide abrasives with a bond of shellol rubber, silicates or to grindstones wrought from natural sandstones or by applying motor-driven portable pendulum or swinging grindstone to work; holds work, at appropriate angle to sides or edge of wheel, which may be spherical, conical, cylindrical or other desired shape for special classes of work; grinds dry or wet as may be expedient; manipulates gears to control cutting speed and to avoid skidding; or operates grinding machine in which internal and external cylindrical surfaces and plain surfaces are trued or in which carra, cutters, taps, drills, etc., are ground; sometimes specifically designated, *e.g.*, the article ground, *e.g.*, *arvil grinder*, *axle grinder*, *cutler grinder*, *drill grinder*, *edge tool grinder*, *spindle grinder*, *tool grinder*; by type of grinding performed, *e.g.*, *cross grinder*, *plane grinder*, *straight grinder*; by kind of grinding machine used, *e.g.*, *cylindrical grinder*; or by manner of grinding, *e.g.*, *face grinder*, *B. & S.*; and a machine grinder *q.v.* who operates proprietary grinding machine, the initials of the maker of which are B. & S.

grinder, *how*, *see* dresser, *how*.

grinder, *burr* (needles); smooths off roughness round eyes of a group of double needles prepared by spitter (279) *q.v.* by holding against emery wheel; breaks wires so as to form two needles and grinds away roughness round heads.

grinder, *cam-howl*; a machine grinder *q.v.* who grinds and fits bolts to cam grooves.

grinder, *card clothing grinder*; *card needle pointer*, *needle pointer*; adjusts and operates grinding machine fitted with a plough guide followed by rotating emery discs which grind a point in wire needles or teeth of card clothing.

grinder, *castings grinder* (foundry); *emery bobber*, *emery wheeler*, *foundry grinder*, *glazer*; cleans up castings after sand has been brushed off, *see* brusher (183), by grinding them smooth on emery wheel or composition grindstones; (small castings) holds castings against revolving emery wheel, thus removing stamps of "gate," "runner," and leaves left on by spruing (183) *q.v.* and grinds down "fin" of metal formed between two halves of mould; (*large castings*) grinds off irregularities of castings using small portable electrically-driven emery or composition grinding wheel; switches on current and holds wheel against part of castings to be ground smooth.

grinder, *comb*; *comb mooter*; grinds, on emery wheel, flat and cylindrical combs for textile combing machines.

grinder, *cross* (steel pens); holds steel pen in grooved flange at right angles to both the emery wheel or carra across the point; sometimes done in automatic machine by machine grinder *q.v.*

grinder, *disc*; a grinder *q.v.* who grinds metal goods by holding against face of a revolving disc grinder.

grinder, *drill*; grinds edge tools, cutters, etc., on abrasive wheel, running dry, i.e., not moistened as it runs; grinds other articles on dry stone wherever it is expedient that the edge of wheel should be distinctly seen in order that particular spot may be reached or when grinding liquid cannot be easily controlled, as with work revolving in chuck or on lathe.

grinder, *edge tool* (babbings); a wet grinder *q.v.* working on his own account as an outworker for large emery works.

grinder, *face*; a machine grinder *q.v.* who operates special type of grinding machine in which grinding is performed by face of wheel and not by edge.

grinder, *flat*; a grinder *q.v.* who polishes, by grinding, flats (metal bars) on which card clothing (cloth, leather, etc., set with wire teeth) is to be fixed.

grinder, *foundry*, *see* grinder, castings.

grinder, *hole*; grinds holes by lapping with oil and emery powder; fixes work to be ground in lathe and fits up tool of lead lined steel; controls speed of lathe and feeds lapping rod with emery flour and oil.

grinder, *titinrant*; *jabbing grinder*, *see* grinder, travelling.

grinder, *knife*; (i) grinds, sharpens, and repairs odd knives; is usually a travelling grinder *q.v.*; (ii) a grinder *q.v.* usually an outworker, who grinds blades for odd kind of knife.

grinder, *machine*; *face*, *bolt* or *clamps* work on bed or table of machine; selects and fits revolving abrasive cutter or cutters; manipulates levers to bring cutters to bear on work and to control power drive; applies and removes abrasive powder to work as required; tests work at intervals by gauges or micrometer measurement.

grinder, *machine knife emery*; *apron-wheel grinder*, *Stalk's machine grinder*; a machine grinder *q.v.* who removes irregularities on rough

machine knife forgings in wet grinding machine (usually Slack's segmental grinder) in which faces, bevels and cutting edges are ground to correct dimensions.

grinder, plane; a machine grinder *q.v.* who operates grinding machine which grinds flat surfaces; work previously done on planing machines.

grinder, precision; a machine grinder *q.v.* who attends precision grinding machine which grinds to fine degree of accuracy; makes adjustments of grinding cutters by use of micrometer.

grinder, razor blade (machine); a machine grinder *q.v.* who grinds razor blades between two small stones, mechanically driven, revolving in opposite directions, which hollow out blades; sometimes repeats process on a succession of smaller and smaller stones, till desired fineness of edge is attained.

grinder, rough; a grinder *q.v.* who grinds castings, forgings, etc., roughly to shape on an abrasive wheel; sometimes specifically designated, *e.g.*, tool rough grinder.

grinder (saw); a grinder *q.v.* who grinds roughly shaped saws between two grindstones revolving in opposite directions and at different speeds to smooth faces of saw.

grinder, scissor blade; (1) a grinder *q.v.* who shanks and hamps forged scissors blades, *i.e.*, removes irregularities left from forging, on dry sandstone; (2) blade grinder, either forged or drop-stamped, on wet stone or on emery wheel.

grinder, segmental; see grinder, machine knife emery.

grinder, shaft shaft grinding machine *q.v.*

grinder, straight (steel pens); holds steel pen in grooved plate against a power-driven emery wheel so that the pen is ground straight or along its length and side.

grinder, travelling; itinerant cutter, itinerant grinder, jobbing grinder, travelling cutter; calls at customers' houses with grindstone and repair outfit mounted on a wheeled truck and grinds and repairs knives, scissors, etc., may also collect knives, tools, cutters, etc., from iron-workers to grind at home.

grinder, universal; a machine grinder *q.v.* who operates universal grinding machine, used for external, internal and other grinding operations and so constructed that a variety of grinding tools can be used and the work clamped in the best working position.

grinder, wet; a grinder *q.v.* who directs a stream of water from a pipe between the grinding and grinding surfaces; wet grinding permits of faster and heavier grinding than dry grinding.

grinder and glasser; a grinder *q.v.* who grinds articles on grindstone or abrasive wheel and then glasses them to produce smooth surface; *cf.* glasser (235).

pointer, drill; a grinder *q.v.* who sharpens ends of drills on emery wheel or grindstone, or in precision grinding machine.

pointer, needle; card needle pointer, *see* grinder, card clothing.

pointer (needles); sets carbonum wheel accurately in relation to feeding wheel; feeds, by hand, needle wire between two wheels so that points at each end are ground.

pointer, spindle; a grinder *q.v.* who grinds ends of textile spindles to points by means of emery or abrasive wheel.

scorcher, scorcher (cutlery); scorcher; holds cutlery blade against revolving grindstone to rough or smooth a place for application of firm's mark, after forging and before hardening; work usually done by elderly large workmen.

scorcher, *see* scorcher.

setter (cutlery); an edge tool setter *q.v.* who straightens and adjusts blades by filing and hammering, and sets cutting edge of scythes, sickles, and similar articles on whetstone or rubstone.

setter, edge tool; a grinder *q.v.* who sets or finishes cutting edges of tools, by holding tool on rest against revolving whetstone to grind edge at correct angle according to kind of tool.

setter (needles); holds a number of needles between finger and thumb against revolving emery bob to give final set or point to them; *cf.* pointer (needles).

setter, razor; razor whetter; puts keen edge on finished razors by drawing them on fine whetstone; also repairs worn razors by grinding them and whetting them on oil stone.

shaft grinding machine attendant; shaft grinding man, shaft grinding worker, *see* grinder, shaft.

sharpener, shavers; shavers whetter; a grinder *q.v.* who shaves cutting edge of large cutting shavers or scissors with emery or fine stone wheel and oil stone.

sharpener, tool; tool whetter; (1) a grinder *q.v.* who sharpens tools forced by tool smith (194) *q.v.* by grinding them on a carbonum or emery wheel and then finishing off on an oil stone; generally done by tool stores men (241) *q.v.*; (2) a tool reviver (278) *q.v.* who sharpens tools which have been blunted by use.

traser, *see* wheel traser.

wheel traser; traser; a grinder *q.v.* who trases or trases up grindstones which have become worn and ribbed; raises stone, to reduce it to its true shape, by applying to it, as it revolves, a steel or iron trasing tool, usually of chisel form.

whetter; whittener; whans or sharpens by rubbing on hard close grained stone, edge tools, articles of cutlery, etc., after the have been ground.

whetter, *see* whetter, cutlery whetter, shavers whetter, etc.

whetter, razor, *see* setter, razor.

whetter, shaver, *see* sharpener, shaver.

whetter, tool, *see* sharpener, tool.

whittener, *see* whetter.

238.—GLAZERS. POLISHERS, BUFFERS AND MOPPERS.

barrel smoother; polishes and buffs surfaces of barrels of rifles, pistols and sporting guns to produce dead smooth finishes, entirely by hand; fixes barrel, etc., in bench vice and works over surface with a smoothing iron, a block of steel with file cut form.

belt (forks and spades); edge tool bander; finishes and polishes corners or straps of edge tools, *e.g.*, forks and spades, by holding them against mechanically-driven belt dressed with emery powder and pumice.

bobber; bufer, buffing machinet, buffing machine worker, mopper (slump); removes surface irregularities and polishes metal articles by holding them against power-driven revolving wheel the edge of which is coated with cloth or leather and sprinkled with abrasive powder or polishing compound; sometimes further designated by the article polished, *e.g.*, buckle bobber, hams bobber, spur bobber.

bobber and polisher, spur; a bobber *q.v.* who removes surface irregularities from finished spurs on leather bob, dressed with fine emery powder, and gives them final point on rag mop or dolly, dressed with very fine abrasive powder.

brusher (needles); cleans eyes and grooves of sewing machine needles by holding them against revolving brush, dressed with oil and emery powder.

brusher (scissors); polishes scissor blades after they have been ground, by holding them singly to a revolving brush, dressed with oil and emery.

brusher, scratch; polisher, scratcher; removes scale, cleans and generally brightens surface of metal articles by holding them against circular wire brush revolving on special form of lathe.

buffer, *see* bobber; sometimes specifically designated, according to article, *e.g.*, bowl buffer, brass buffer, comb buffer, cutlery buffer, or according to abrasive used, *e.g.*, lime buffer, sand buffer.

buffer, blacksmith's; a buffer *q.v.* polishing blacksmith's work after it has been ground by grinder (237) *q.v.* on emery wheel.

buffer, blades; (1) a bobber *q.v.* who glasses, *i.e.*, smooths and rough polishes blades, and gives first buffing, after blade has been ground, and before parts are assembled into complete articles, using buff, bob, dolly or mop; sometimes also grinds blades; (2) puts final polish on blade shaft, after article has been assembled.

buffing machinet, buffing machine *q.v.*

burnisher, scissor bobber; sometimes specifically designated, *e.g.*, brass buffing machinet.

burnisher, hand; gives close grain to surface of metal by rubbing with steel or agate tool of flat oval section; draws work in vice and runs tool, using both hands, backwards and forwards on surface of article.

burnisher, lathe; fixes article in chuck of lathe and burnishes it by pressing rubbing tool against article as it revolves.

burnisher (needles); sets up a row of needles in a clamp or frame; threads them with cotton, and cleans burrs from eyes, by hand, by drawing cotton covered with oil and emery, to and fro.

card wire cleaner; card wire dresser; a wire polisher *q.v.* who dresses and polishes, in bulk, wire to be made into needles or into card clothing for carding machine.

cleaner (needles); holds a number of needles between finger and thumb and rolls them against power-driven polishing bob to clean them.

dresser, card wire, *see* card wire cleaner.

dresser, harness furniture; a burnisher *q.v.* who finishes buckles of harness etc., with burnishing tool.

dresser, scissors; a bobber *q.v.* who buffs neck and hove of scissors to make them smooth before passing to harness *q.v.*

edge tool bander, *see* belt.

finisher (cutlery); a bobber *q.v.* who finishes buffing and polishing of cutlery on soft rag dollys dressed with fine rouge or crocus powder (oxide of iron).

finisher (needles); (1) a bobber *q.v.* who polishes needles by holding several in a sagger against revolving leather bob; sometimes polishes by hand rubbing; (2) feeds needles into hopper of automatic polishing machine.

finisher (pocket knives); a bobber *q.v.* who puts final polish on pocket knife (ends, huffs and blades), after knife has passed through hands of cutter (228) *q.v.*, first on emery wheels of varying fineness, then on leather wheel and then on buff edged with felt, or other soft material, dressed with a polishing composition.

glazer; plating machine worker; removes grinding marks on articles after rough grinding and prepares them for final polishing; holds article against revolving wheel, the edge of which is coated with fine emery or other fine abrasive, or at a glazing belt to which abrasive is glued; sometimes specifically designated by the article glazed, *e.g.*, spade glazer, tool glazer; *cf.* grinder (237).

glazer (cutlery); glazes and polishes, with or without grease, ground blades, by holding them against emery wheels or on wooden wheels faced with leather and dressed with glue and fine emery powder.

glazer, edge tool raw; a grinder g.v. who performs first, or "roughing out" glazing on edge tool forgings at a dry rough emery wheel.

glazing machine worker, see glazer.

lapper; rubber; gives highly finished surface to work which has been accurately ground; holds article, e.g., steel bearing, against revolving disc or lap, in which is embedded abrasive; applies oil and emery flour to surface of disc as required.

lapper, axle bush; axle box lapper; left-hand; polishes and trues up axle box preparatory to fitting on axle; "laps" or grinds, inside of box on a lathe with rotating lead lap, oil and emery, to fit turned portion of axle, before axle is hardened; is usually also a wear-up g.v.

lapper, barrel lapper (small arms); polishes bore of barrel, after it has been rifled; fixes in lathe with tapping rod of lead cased steel, which as it rotates is drawn to and fro through bore; supplies lead with emery powder and oil; finishes bore by tapping, by hand.

lapper-up, flyer; a lapper g.v. who operates a lapping machine to grind, polish and make true circular running section of hose and spindles of flyers.

leatharer (ball bearings); grinds true and polishes ball bearings by rubbing them with fine emery paste between two leather covered discs.

letter-man, see lapper, axle bush.

mopper, grease mopper; a polisher g.v. who uses a mop of calico or other fabric, dressed with abrasive or polishing composition or grease.

polisher; (i) general term covering bobbers, glazers, polishers, buffers and moppers g.v.; (ii) sometimes specifically designated according to article polished, e.g., cup polisher (bearings), cutlery polisher, frame polisher (cycles), roller polisher (textile printing); according to abrasive used, e.g., crocus (oxide of iron) polisher, lime polisher; or otherwise, e.g., engraver's polisher (textile printing); (iii) see brusher, scratch.

polisher, axle, see wear-up-down.

polisher, brass (foundry); grinds off the frame and file marks on brass castings and rough polishes them on an emery wheel, finishing off on leather and rag dollys with crocus powder or other material as abrasive.

polisher (brass musical instruments); trims finished brass instruments; rids of excess of solder; puts in corks and springs, and finishes instruments, generally polishing them with a hard brush or with a buffing machine.

polisher, lathe; polishes metal articles on lathe, by holding against them, while rapidly revolving, a leather buff or rag dolly or mop to which sand, pumice, iron filings, emery or other polishing material has been applied, usually with admixture of grease.

polisher (saw); (i) places blade of hand saw or long saw between two power-driven wooden rollers faced with leather, with bees-wax dressing for holding emery, and draws it across to brighten or polish them; (ii) places circular saw by mounting it against face plate on horizontal axis and making plate rotate at high speed, while emery powder is applied to saw and block of wood pressed against it to bring its face in contact with plate.

polisher, wire; polishes dull-driven wire by drawing it through a roughing pad, polishing block or other polishing material and elated lime; mounts drum of wire on spindle, passes wire through pad and fastens to rotating drum, which is power-driven.

rubber, see lapper.

rubber, emery belt; a grinder g.v. who grinds or polishes castings or machine parts on an emery corf bed, usually passing over two revolving pulleys.

sander; a polisher g.v. using fine sand as abrasive.

sanding machine operator (sewing machines); holds parts of sewing machines against abrasive surface of sanding machines, which grinds down metal to reduce them to exact size required, and to polish them.

sat-in finisher (metal polishing); a bobber g.v. who polishes a metal surface by holding it against revolving belt in such a way that a satin-like effect is obtained.

scorcher (needles); lays long rows of tempered needles on sacking with abrasive paste; rolls up sacking and bends with hemp cord; places bundles on bed, rolling mill under heavy cabs of wood or stone which work them backwards and forwards by power for several hours; takes them out and washes them to remove scale.

scratcher, see brusher, scratch.

scratcher (files); scratches fine files with coconut husk and under dust to clean teeth and even up their cutting power.

scrubber (files), see scratcher (files).

slider, hard (needles); burnishes sides of sewing machine needles in the hard, i.e., after hardening on revolving bob with oil and emery, clamps needles in holder and holds against hob.

slider, soft (needles); as for slider, hard, but before hardening.

snapper (dangle), see bobber.

wear-up-down, wear-up (axles); (pocket knives) g.v. giving final polish to spring knives (pen and pocket) on rag dolly, with rouge or crocus powder.

wear-up-down, wear-up (axles); axle polisher; receives forged axle after it has been turned to size, and case-hardened; polishes it by hand with an emery cloth, in a lathe and file axle bush on it; usually lays axle back, before fitting it on axle, but sometimes receives it ready lapped from lapper g.v.

twira patent; operates machine in which steel wire is tempered, polished and finished; mounts drum of wire on spindle, passes wire through coal, gas or electric furnace and polishing pots and fastens to winding drum; controls heat of furnace according to length of wire.

230-GUN SMITHS AND GUN LOCK AND ACTION MAKERS.

action maker; (i) a gunsmith g.v. who specializes in making gun actions; (ii) see assembler, action.

armourer; looks after, cleans and does minor repairs to small arms in armoury of small arms factories; usually has had experience as a gunsmith g.v.

assembler, action; action maker; assembles forged and machined parts of action of rifles, guns, pistols, etc., and screws in barrel, ready for action fitter-up g.v.; works at bench using hand tools, i.e. screw driver, spanner, wrench, file.

assembler, gun, as for assembler, rifle.

assembler, rifle; assembles and roughly fits together component parts of rifles, e.g., action, barrel, slide, trigger, set, magazine, etc., ready for rifle fitter g.v.; works at bench using hand tools, i.e., screw driver, spanner, wrench, file.

breech maker; a gunsmith g.v. who makes breech blocks for rifles and sporting guns.

ejector maker; a gunsmith g.v. who specializes in making ejector mechanism of sporting guns, which automatically ejects cartridge case from chamber of barrel.

finisher (guns); receives assembled gun from gun fitter g.v., screws on trigger stock, and hand grips; sees that all parts of gun work smoothly

and that screws are flush and correct; makes any final adjustments necessary, oils gun to prevent rusting; cf. finisher (guns) 1989.

fitter, action; action fitter-up; action fitter; receives assembled actions from action assembler g.v.; tests them for smooth working, files them and makes any adjustments necessary; sometimes specifically designated, e.g., rifle fitter, cycle fitter.

fitter, break-off; files and fits break-offs of muzzle loading guns, i.e., reinforced portions of breech and barrel which carry percussion nipples and flash caps.

fitter, gun; fitter-up; receives assembled gun from gun assembler g.v. and makes any necessary adjustments, by filing, etc., to give smooth action.

fitter, rifle, as for fitter, gun.

fraser, action; gun lock fraser, lock fraser (gun); adjusts gun lock actions, after they have been fitted by action fitter g.v. filing them, where necessary, with a very fine smoothing file.

gun maker, machine; assembles and fits together component parts of machine guns; works at bench using vice, screwdriver, spanner, file, etc.; sometimes specifically designated, e.g., Lewis machine gun maker.

gunsmith; (i) general term applied to workers engaged in making, from bar or rod steel, any or all parts of action, lock barrels, trigger, set, sights or any other metal parts of guns (chiefly, rifles, pistols, revolvers); forges parts; gun work faster 1970, machines or files them to required shape and size, and fits together at bench; is frequently, in case of best class of sporting gun work, an outworker who works for one or more gunmaking firms; may specialise in making one part of weapon, or may even make weapon throughout; sometimes draws roughly machined parts from employer and assembles, admits and files them to produce finished arm; (ii) general term used to denote any worker who assembles, finishes or machines gun parts.

gunsmith, machine gun; machine gunsmith; a gunsmith g.v. who machines parts in gun or rifle factory.

hammer maker; a gunsmith g.v. who makes hammers for guns or revolvers.

lock maker, gun; gun lock maker, gun locksmith; a gunsmith g.v. who makes, assembles, and fits component springs and other parts of lock mechanism of gun.

percussioner; files and fits hammers of breech loading guns.

rifle maker, as for fitter, gun.

trigger maker, half trigger maker; (i) a gunsmith g.v. who specializes in making complete trigger sets comprising trigger, guard, trigger plate and trigger; (ii) operates machine for making triggers out of rod steel.

240-HEATING AND VENTILATING ENGINEERS (no returned)

engineer, heating; hot water engineer; (i) draws up specifications for installations to heat buildings by steam, hot water, hot air, etc.; often combines this with planning schemes of ventilation; (ii) at very fitter, draws up and connects pipes for conveyance of hot water, and installs small boilers and furnaces and other forms of heating appliances.

engineer, ventilating; visits premises where ventilation system is to be installed, and draws up schemes and working plans for same, according to nature of undertaking; may also execute plans, i.e. fit and install air shafts, ventilating gratings, electric fans, etc.

fitter, hot water; steam fitter; steam and hot water fitter; (i) cuts pipe with hack saw or file, screws ends with stock and die and fits pipes into sockets of joints, L-bends, etc.; caulks joints of cast iron pipes of large diameter intended for a low pressure system of heating, by ramming in a composition of iron rust, oil, ammoniac and yarn; cf. pipe fitter 2261; (ii) see engineer, heating.

241.-JAPANNERS, ENAMELLERS AND STOVERS.

aerograph, *see* sprayer, air.
blackener, a japanner *g.v.* who paints iron hollow-ware, parts of stoves, grates, ranges, etc., with black japan by a brush or air spray; or, applies black japan by dipping articles in bath of that liquid; puts articles aside to dry ready for storing may also perform duties of stover *g.v.* (*scientific instruments*).
lacquerer *g.v.* who applies coat of black lacquer by painting, spraying or dipping, to iron parts of scientific instruments.

bronzer, metal bronzer; (i) dipper (bronzer); colours steel and polished brass articles to resemble bronze by dipping them, by hand, in prepared acid or other metal-staining solution with, or without, subsequent beating on beaded metal plate; places articles in revolving cylinder with fluid and pieces of green-innocent felt to give them; (ii) puffer; bronzes metal articles, e.g. stamped and pressed metal ware, umbrella furniture, etc., by means of electro deposition suspending them by wire from bar comb, bath, and switching current on and off to start and stop process; removes bronzed articles from bath and allows to dry; (iii) (dust) pen; colourer; places steel pens in bath of black ink, dips in hollow steel cylinder which is made to revolve over lighted gas jets; adjusts temperature by regulating gas valve and removes pens when oxidation is complete.

brusher; (i) layer; applies enamel in liquid form by wrought iron articles, steel plates, etc., by hand with paint brush; (ii) brusher-off; brushes off ground enamel colour from steel plates using a hand brush and stencil to remove only that colour which is subsequently to be removed; or, *see* (iii) below; works on special table provided with holes and efficient exhaust to remove enamel dust brushed off; (iii) applies, with brush, coloured enamel to steel plates already covered by ground coat of white or other enamel, using stencil to form designs, letters, etc.; (iv) may combine all operations performed in (i), (ii) and (iii) above; places prepared plates aside to dry ready for firing or firing of enamel.

brusher-off, *see* brusher.
brusher, paint; painter (bedsteads); paints, by hand with brush, metal bedsteads with japan paint ready for storing.

burner, *see* muffle hand.

colourer, *see* bronzer.

decorator; decorates surface of enamelled goods by hand, painting with brush, designs or lines in gilt or colour.

dipper, dip hand; dips, by hand, small articles, e.g. by enamelled, japanned, or bronzed, into tub bath, or vat of suitable fluid, and sets them aside to drain and dry ready for storing (blackened or japanned articles) or fusing (enamelled articles).

dipper (bronzing), *see* bronzer.
dryer (revolver); puts freshly enamelled, japanned or lacquered parts of cycles in a stove to dry; opens doors of stove, runs in small trolley, or places trays on shelves in stove, enameller; applies coat of enamel to articles by (i) hand painting wrought iron articles with ordinary brush, *see* brusher; (ii) spraying with an aerograph, *see* sprayer, air; (iii) dipping wrought iron articles by hand in vat of enamel, *see* dip hand; (iv) dusting powdered enamel on to cast iron articles which have been previously placed in a stove to heat; withdraws heated article from furnace and sprinkles powdered enamel over it as evenly as possible, by hand, using a long-handled duster

or dredger; returns articles as soon as "dusted" to fuser *g.v.* to have enamel fused on in muffle furnace; sometimes specifically designated according to articles enamelled, e.g. black enamel, slip enameller, cycle enameller, hollow-ware enameller.

enameller, black; coats steel and iron work with non-vitreous black enamel by hand, with brush, or dust steel and iron work or other articles, e.g. electrical apparatus, in a vat of black enamel; in small works, does own storing, *see* stover.

finisher, paraded rib; umbrella rib finisher; a dip hand *g.v.* who puts coat of japan on parasol or umbrella ribs and bakes them in stove to harden.

faster, *see* polisher.

fuser, *see* muffle hand.

hot room attendant, *see* stover.

japanner; applies coat of black japan to articles by brushing, dipping or spraying (see brusher, dip hand and sprayer, air); places articles aside to drain and dry ready for storing; in small works, may do own storing, *see* stover; usually applies two successive coatings of japan (and sometimes more) to each article hardening each coat as applied, to give better "finish"; (storer) places screws through holes of perforated plate applies japan to heads of screws by hand with a brush, and takes plate and screws for hardening; frequently specifically designated according to nature of articles japanned, e.g. edge tool japanner, furniture japanner, harness japanner, plate lock japanner, stock lock japanner.
lacquerer, hot lacquerer; varnisher, lacquerer, woman; applies coat of lacquer to metallic surfaces (usually brass) by dipping articles in bath of specially prepared lacquer, or by means of a brush, or for large articles, by spraying lacquer on by air-spray, *see* sprayer, air; usually bakes articles in stove before lacquering and applies lacquer to them whilst still hot; *cf.* cold lacquerer (1925).

layer, *see* brusher.

liner; paints lines of colour in enamel, by hand, on enamelled or japanned metal articles, i.e. parts of cycles, sewing machines, etc., to serve as decoration; places articles on for storing to harden colour, or to fire enamel; sometimes specifically designated, e.g. colour liner, cycle liner, gold liner.

liquidiser, *see* swiller.

muffle hand; burner, fuser; tends muffle furnace in which are heated metal goods with coating of unfused enamel, so that enamel is fused on; regulates temperature by adjusting gas valves or fire dampers if coal heated; runs enamelled articles to be fused into furnace on grids or trays supported on small trolleys; watches progress of fusing through apertures; withdraws goods from furnace when operation is complete, and sets aside to cool, ready for further coat of enamel or for despatch to warehouse.
ornament worker; japanner's ornamentier; does coloured ornament work on japanned ware, by hand, with a brush, including lining, *see* liner; puts decorated ware aside to dry ready for hardening on in stove.

ovenman, *see* stover.

painter (bedsteads), *see* brusher.

paint.

painter, cycle; a brusher *g.v.* or an air sprayer, *g.v.* who applies coloured coat of japan or enamel to cycle parts; repairs process giving as cycle parts of colour as are required, allowing each coat to be stored (*see* stover) before applying next.

plater, *see* bronzer.

polisher; fluffer, rubber; rubs down, after storing, surfaces of metal ware that have been japanned or enamelled, by hand with panicle stone or powder to render them

smooth and remove all excess of japan or enamel; passes ware on for further coat of enamel, etc., and sufficient coats have been applied, stored and polished; sometimes specifically designated, e.g. black polisher, enameller's polisher, japan polisher.

rubber, *see* polisher.

sprayer, air; paint sprayer; aerograph; controls valves of aerograph, or spraying machine, by which a coating of enamel (or japan) in liquid form is blown on to metal articles in process of enamelling (or japanning); may use stencil to reproduce designs or lettering; sets articles aside to drain and dry ready for storing, *see* stover.

stover, stove attendant, stove man; hot room attendant, ovenman; places metal goods that have been coated with enamel or japan on trays or grids and places these in an oven (japanned ware); regulates heat of oven which is usually gas fired; watches ware to ensure complete hardening of japan; withdraws ware when process is complete and sets it aside to cool ready for polisher *g.v.*; sometimes specifically designated, e.g. black stover, colour stover, enameller's stover.

swiller, liquidiser; (i) a dip hand *g.v.* who dips "fat" ware, e.g. plates for advertisement stencils, in tub of liquid enamel; (ii) (dip) pours a small quantity of liquid enamel into hollow-ware, e.g. bowls, saucers, and swills it round to distribute enamel over surface and pours surplus back into vat; sets article to drain ready for firing.
tipper; a liner *g.v.* who puts a head-ling of colour by applying liquid enamel round top of enamelled metal hollow-ware.

varnisher, varnish woman, *see* lacquerer.

242.-LEAD BURNERS AND CHEMICAL PLUMBERS.

chemical plumber, *see* lead burner.

lead burner; chemical plumber; installs and repairs leaden tanks, stills, pipes, etc., and makes lead pipe connections in chemical works.

to exact size with knife and shears and lines tanks (intended for holding acids and other chemicals, whether in a chemical works or otherwise; uses edges of lead sheets, pipes, etc., after hot fusing together, adjoining surfaces with blow pipe, or by pouring molten lead round joint or hole.

243.-LOCK, LATCH AND MAKERS; LOCKSMITHS.

cutter, key; reverseth; files out and smooths edges of a set of key on key blank, and circular warding files and small circular cutters in milling machines; sometimes done by lock maker *g.v.*

key finisher (safe); (i) completes making of safe lock key, by hand filing keys which have been roughly cut by machine, or by hand by less skilled men or boys; (ii) finishes dressing of drop-forged key by hand filing or by smoothing edges on corner wheel.
key maker; (i) general term for any worker making keys, whether by cutting, forging, or stamping, or by filing blanks, including key master (1903), key cutter, key filer (1903), key forger (1909) *g.v.*; (ii) makes keys and files from blanks; sometimes also forges key blanks; cuts and finishes them.
keysmith, *see* cutter, key.

latch maker; assembles, fits together, rivets and makes up latches from cast, stamped or machined parts; sometimes specifically designated something to type of latch made, e.g. combination latch maker, flush latch maker, mortice latch maker, thumb latch maker.

latch maker, night; a lock maker *g.v.* who assembles cast, machined, and stamped parts of night latches, i.e. latches for outside doors operated from outside by latch keys and from inside by knobs.

lock maker; locksmith; general term for any man doing skilled and semi-skilled work in making, i.e., assembling, locks; assemblies, fits together, rivets, and generally makes up locks from cast, stamped, or machined parts; may also cut and shape parts by use of machine tools; frequently specifically designated according to the type of lock assembled, e.g. automatic lock maker, lock edge lock maker, brass case lock maker, cabinet lock maker, carpet bag lock maker, combination lock maker, dead lock maker, detector lock maker, drawback lock maker, escutcheon lock maker, flush lock maker, latch lock maker, letter roller lock maker, lever lock maker, machine made lock maker, mortice lock maker, permutation lock maker, railway carriage lock maker, safe lock maker, spring lock maker, stock lock maker.

locksmith; (i) see lock maker; (ii) a lock maker *g.v.* who performs work on locks and who has a high skill is required and in which greatest accuracy of workmanship is essential, e.g., safe locks, or locks for special purposes and of unusual sizes; cuts out parts of lock by hand from brass plate with high saw and forges other parts of unusual size or pattern; repairs locks that are damaged, making new parts or adjusting old parts by filing, cutting, etc., or giving instructions as to size and shape of parts required to be made; sometimes cuts keys for locks which he makes, or special master keys for a series of different locks; *cf.* key maker; is usually able to make any kind of lock throughout by hand, or to repair any lock. Sometimes specifically designated according to type of lock made, e.g. brass locksmith, cabinet locksmith, mortice locksmith, mortice locksmith, plate locksmith, stock locksmith.

padlock maker, padlock smith; a locksmith or locksmith *g.v.* who assembles, fits and rivets together by hand, prepared parts of padlocks; special padlocks being made and repaired by locksmith *g.v.*

244.—MECHANICAL ENGINEERS; ENGINEERS (not Engine Drivers).

engineer, butcher's; a fitter and erector (210) *g.v.* who fits together and builds up machinery and steel work for use in butcher's establishments, such as engines, motors, mining or chopping machines, stock yards, etc.

engineer, domestic machinery; a fitter and erector (210) *g.v.* who fits together and assembles in position, boilers, laundry machines, mangles and other domestic machines; effects repairs and maintains in good running order.

engineer, bull; *yard engineer*; is in charge of machinery in yard and is responsible for its upkeep; erects, e.g., machinery pertaining to bull department, i.e., clearing gear, windlasses, capstans, etc.; as for fitter and erector (210).

engineer, laundry; *stoker engineer*, *workhouse engineer*; as for domestic machinery engineer, working in large laundry; does ordinary running repairs to engines and is in charge of men driving engine engines; sometimes driver engine, *cf.* laundry engineer (250).

engineer, marine (in engineering works); is skilled in theory and construction of marine engines, and is capable of working in pattern shop, foundry, machine and erecting shops of marine engineering works, see

pattern maker (180), moulder (180), fitter (210); *cf.* marine engineer (seagoing) (734).

engineer, mechanical engineer; general term applied to skilled metal workers engaged on fitting, erecting, repairing and maintaining mechanical plant, e.g., engines, lathes, pumps, machines of all descriptions; fitters (210), erectors (210), millwright (212) *g.v.*, in addition to specific engineers contained under this code number.

engineer, pump; pump doctor (*slang*); a pump fitter (210) *g.v.* engaged on repair work to pumps for oil, water, etc.

engineer, rag engineer; a specialised mechanical engineer or fitter (210) *g.v.* engaged in repairs to paper making and pulping machines.

engineer, shafting; cuts from length and erects in position shafting, including machines, drive pulleys, blocks, pulleys, and stringers in proper alignment; sometimes done by millwright (212) *g.v.*

engineer, stoker; washhouse engineer, *see* engineer, laundry.

engineer, Trinity House; a mechanical engineer *g.v.* who specialises in the machinery necessary for light-houses, lighthouses, for signals, etc.

engineer, yard, *see* engineer, bull, hydraulic repainer; repairs hydraulic machinery and plant.

pump doctor (*slang*), *see* engineer, pump.

repainer, automatic machine; repairs mechanism of automatic machines by replacing or adjusting parts damaged by wear and tear; often travels from place to place regularly examining machines and doing necessary repairs.

repairer, brakes; fits adjusters and keeps in running order, brakes of rolling stock, renewing wearing parts, etc.; usually done by brake fitter (210) *g.v.*; sometimes specifically designated, e.g., vacuum brake repairer, Westinghouse brake repairer.

repairer, sewing machine; a sewing machine mechanic (245) *g.v.* who repairs sewing machines by resetting or re-adjusting worn or damaged parts.

repairer, tool; repairs pneumatic and hydraulic tools in shipbuilding yard; fits new parts, machining, turning and forging where necessary; usually done by toolsmith (190) or toolmaker (265) *g.v.*

245.—MECHANICS (so returned).

carbideising Hd attendant (*gas works*); a mechanic *g.v.* who goes round retort house and furnace retort and furnace feeds with a view to keeping them gas-tight, adjusts eccentric belt in centre of door lever and/or forges bar forming over which, together with belt, tightens door in position over retort mouth.

fume plant attendant; a mechanic *g.v.* who keeps in order apparatus used in separating dust from fume gases in lead extraction works.

machine minder (cardboard boxes); a mechanic *g.v.* who sets and supervises the running of all machinery for manufacture of card-board boxes, examines mechanism, makes necessary adjustments for accurate work, replaces worn parts.

mechanic; general term for fitters, or fitters and turners (210) *g.v.* who erect, trace faults, overhaul, and repair machinery running in factories and workshops or who supervise these operations; sometimes loosely applied to skilled engineers in the engineering industry; frequently specifically designated according to type of machinery, etc., tended, e.g., engine mechanic, line-tie mechanic, loom mechanic, potter's mechanic, sewing machine mechanic.

mechanic, air; aircraft mechanic, aviation mechanic; general terms for artisans repairing, overhauling and tracing engines and other metal parts of aircraft; *cf.* fitter, motor fitter (210).

mechanic, colliery, as for colliery fitter (210).

mechanic, farmer's; usually a fitter (210) *g.v.* skilled in repair and adjustment of agricultural machinery, e.g., tractors, reaping machines, threshing machines, elevators, dairy machinery.

mechanic, ironmonger's; employed by ironmongers (270) *g.v.* to do jobbing work and repairs for customers, such as repairing kettles or saucepans, fitting or repairing locks, etc.

mechanic, knitter; has charge of a number of hosiery machines, and is responsible for accurate working; alters and adjusts for changes in yarn used and length of loop, i.e., stitch knitted.

mechanic, loom; a maintenance man on staff of textile factory who executes minor repairs to machinery, not requiring its removal to textile machinery factory; is often done by tacker (356) *g.v.*

mechanic, mill; attends to shafting and gearing in mill and carries out small repairs to machinery and plant; usually done by millwright (212) *g.v.*

meter repairer; a skilled mechanic *g.v.* who repairs meters, usually a sheet metal worker (264) or scientific instrument maker (322) *g.v.* with special knowledge of internal mechanism of gas, electric and other meters.

246.—MECHANICAL ENGINEERS', ENGINEERS' AND MECHANICS' LABOURERS.

engineer's labourer, mechanic's labourer; does unskilled labouring work, e.g., lifting, carrying, in connection with maintenance of machinery and plant and assists engineer (244) or mechanic (245) *g.v.* generally, handling up, handling tools, rough filing, etc.

247.—METAL SPINNERS.

bell spinner (brass musical instruments); a metal spinner *g.v.* who takes bell, in rough form, as made by bell maker (304) *g.v.* and shapes it by spinning; may also turn edge over wire to form rim.

brass former, *see* spinner.

spinner, metal spinner; *brass former*; shapes sheet metal hollow-ware, of circular section such as bowls, dishes, covers, by pressing bluntly pointed polished steel tools of various shapes against metal, as it revolves at high speed in lathe, in contact with "former" or mould, fixes metal shape and mould in form of lathe; determines speed of lathe according to size of article to be spun and metal used, by adjustment of gear wheels; sometimes specifically designated, e.g., brass spinner, copper spinner.

248.—MOTOR MECHANICS.

motor cycle engineer; usually a motor mechanic *g.v.* who specialises on solo, hire and repair of motor cycles at a repair shop and/or garage.

motor engineer; general term for skilled workers in manufacture and repair of motor cars, motor cycles, including motor mechanic, motor fitter (210) *g.v.*; often denotes working proprietor or manager of motor repair shop and/or garage, when motor cars are repaired and garaged and also sold and let on hire.

motor mechanic; carries out all kinds of repairs to motor cars, motor cycles and stationary petrol engines; examines engine and chassis, if necessary, from inspection pit; dismantles engine, crank case, differential gear box, or lubricating or lighting system; replaces worn or broken parts, machining, fitting and adjusting them as required; refits and repairs tyres, using vulcanizing plant, if necessary; tools and operations as for fitter (210) *q.v.*; if employed by owner of racing cars, is responsible for tuning and upkeep of cars; may drive cars in races or ride as travelling mechanic with driver, motor repairer; a motor mechanic *q.v.* who works in motor repair workshop.

249.—OXY-ACETYLENE OR ELECTRIC WELDERS AND CUTTERS.

burner, acetylene burner, oxy-acetylene burner; cuts sheet metal, plates and cast iron by directing an oxy-acetylene flame along line to be cut and by melting the metal; burns away rivet heads in same manner.

burner and welder, acetylene; acetylene welder and cutter, welder and cutter; an acetylene burner *q.v.* who also does general welding, *see* acetylene welder.

patcher, patch worker; a welder *q.v.* who repairs breakages or flaws in machinery, *etc.*, by oxy-acetylene or electric welding.

welder, acetylene welder; gas welder, oxy-acetylene welder, oxygen welder; joins or welds iron, steel, *etc.*, using a blow-pipe or burner with an intensely hot flame produced by the burning of a mixture of acetylene and oxygen, uses rod of soft welding metal for melting under flame and running, with flux, between pieces to be welded; cuts or breaks up large pieces, *etc.*, for remelting by melting metal along line with flame; cuts large girders to required lengths; in scrap metal yards, cuts up old boilers for re-melting in steel and iron works.

welder, tank; (i) operates electric roller welding machine in which lapped edges of metal coils are fused and joined; passes metal coil over heated bar of machine and manipulates lever to cause electrically-heated roller to travel over seam or lapped joint; (ii) an acetylene welder *q.v.* who welds seams of metal tank with oxy-acetylene apparatus.

welder, electric welder; (i) operates welding machines of various types *e.g.*, spot welding, roller welding, scrap welding, in which the surfaces of edges of metal are heated to welding point by resistance to electric current and are pressed together mechanically; (ii) operates hand welding apparatus in which a metal electrode is fused by electric current and made to flow into cracks, holes, joints, *etc.*, in castings, or other metal articles; so applies electrode that surrounding metal is also melted and strongly welded joint is made.

welder, gas, see welder, acetylene.

welder, oxy-acetylene; oxygen welder, see welder, acetylene.

welder, rail; an electric welder *q.v.* who welds iron or steel tram rails by electric process.

welder, rim, see welder, wheel.

welder, spot; an electric welder *q.v.* who welds metal surfaces into contact at certain spots, using a spot welding machine.

welder, tube; an electric welder *q.v.* welding pipes and tubes into sockets and joints in boilers, ship's masts, machinery, cycle frames, *etc.*; *cf.* tube welder (256).

welder, wheel; wheel rim welder; rim welder; fuses and welds spliced joint of rim of vehicle wheel, using electric arc welder or oxy-acetylene blowpipe, *cf.* wheel welder (170).

welder and cutter, acetylene welder and cutter, see burner and welder, acetylene.

welder and cutter, electric welder and cutter; an electric welder *q.v.* who also cuts through bar or plate with electric torch.

250.—PICKLERS.

cleaner (cartridge cases); tank head; (i) dips brass cartridge cases in dilute sulphuric acid, by hand, or places cases in boiler on dipping machine, to remove oxide after annealing; washes in water and dries in saw dust; (ii) dips cartridge cases in alkali baths to remove grease and to clean ready for polishing.

cleaner (hollow-ware, iron enamelling, japanning, tinplate, *etc.*); scourer; cleans or scour, by dipping in acid baths and rubbing with tow, sheet metal articles in preparation for enamelling or japanning; *see* pickler, cleaner, sheet cleaner (galvanised sheet); (i) removes sheets singly by hand, or in cradle by hoist, from water bath, where they have been placed by pickler *q.v.*, and places them on platform adjacent to dipper (234) or loader (279) *q.v.*, at advancing machine; (ii) *see* pickler.

dipper, acid dipper, brass dipper; dips brass fittings of all kinds, *e.g.*, unions, taps, lampholders, in acid baths (nitric acid) in preparation for cleaning or polishing, or to give semi-bright finish; washes in water and dries, as for cleaner (cartridge cases).

dipper, link (chains); a pickler *q.v.* cleaning chain links in preparation for galvanising.

dipper (wire), see pickler (wire).
pickler; cleaner, scourer, sheet cleaner (galvanised sheet); removes oxide on surface of metal articles or sheet, in preparation for tinning, galvanising, electro-plating, enamelling, japanning, polishing, *etc.*, by immersing in acid baths and afterwards dipping in water baths to remove excess of acid.

pickler (galvanised sheet); (i) (machine process) dips cradle on which are arranged sheets of iron or steel (boast rack fashion) into a vat of hot dilute sulphuric acid by moving a lever; cradle is mechanically actuated in vat for a few minutes; raises cradle by moving lever and dips it in cold water bath, i.e., water bath, to remove excess of acid; (ii) (hand process) dips sheet into acid vat; agitator consists by means of rod for 10 to 15 minutes; lifts sheets with tongs from acid vat and drops into water bath.

pickler (hollow-ware, enamelling, *etc.*); immerses iron or steel articles, *e.g.*, bowls, cycle parts, taps, in vat or bath of dilute acid, and removes them, when cleaned of oxide, to water bath, using a pickling fork; sometimes also dries articles in sawdust and a vat of air.

pickler (tinplate); (i) as for pickler (galvanised sheet); may be a black pickler working at black pickling vats of stronger acid between hot mills and annealing furnace, to remove black oxide, or a white pickler working at white pickling vats where sheet is cleaned just prior to tinning; (ii) places tin plates on travelling belts which carry them into and through pickling baths, rinsing and drying apparatus; specifically designated first pickler; first hand pickler, if in charge of process and gang; or second pickler, second hand pickler, underhand pickler, if second in command.

pickler (wire); dipper (wire), scourer; dips coils of wire or wire rod, submerged in bath of small tank of overheat brine, into acid tank and rinses in water bath, in preparation for galvanising, coating, card clothing manufacture, *etc.*; if to be further drawn, plunges into lime solution after removal from water bath.

scaler; beats sheet metal with piece of flat iron (wood shaped), after annealing, to remove obnoxious scale, prior to pickling; now obsolescent owing to strength of acid used in pickling.

scaler, copper sheet; plunges red hot copper sheet into water to remove most of scale; where further cleaning is necessary, dips sheet into dilute sulphuric acid or other acid solution, or applies liquid to surface of sheet with a brush of tow; plunges sheet into clean water after it has been heated in a furnace; for special classes of work, plunges sheets cold in a bath of dilute sulphuric acid and washes in a bath of clean water.

scourer; (i) as cleaner (hollow-ware, tin-plate, *etc.*); (ii) *see* pickler, and pickler (wire).

tank head, see cleaner (cartridge cases).

251.—PIPE FITTERS.

coupling connector (waterworks, *etc.*); a pipe fitter *q.v.* who connects with main pipe, services pipes previously laid, repairs jointing by services laves (475) *q.v.*, and disconnects when necessary.

pipe bender, see pipe fitter (ship-building).

pipe doctor, see pipe fitter (blast furnace).

pipe fitter; tube fitter; (i) tube wrought or cast iron, or brass or copper pipes with harkaw, chisel, file or special pipe cutting tool, holding pipe in bench vice; bends pipes on bench with help of mandrel, *etc.*, so required and correct ends with stock and die and fits into position in joints, sockets, L-bends, Tee-pieces, *etc.*, for electric light, power, heating, gas, water, *etc.*, systems; joints by screwing together with caulking composition or flangeing in molten lead to make water tight; repairs and refits system; (ii) *see* pipe joiner (locomotives); sometimes specifically designated, *e.g.*, hot water pipe fitter.

pipe fitter (blast furnaces); pipe doctor; a pipe fitter *q.v.* who erects, repairs, *etc.*, pipes conveying hot air to and from blast furnace; also attends to water pipes, turbines, steam pipes, furnace fittings, *etc.*

pipe fitter (shipbuilding); pipe bender; a plumber (323), copper smith (327) or engineer (344) *q.v.*, according to class of pipes, fitting pipes in ships.

pipe fitter's mate; assists pipe fitter *q.v.* generally; helps in handling heavy tools and pipes, in cutting pipes with chisel, tank saw, or pipe cutting ratchet tool, screwing ends, holding up work, *etc.*

pipe joiner (locomotives); pipe fitter; a pipe fitter *q.v.* who scours, fits and braces various pipes built into railway locomotives; *cf.* tube smith (327).

pipe joiner, sprinkler; sprinkler fitter; a pipe fitter *q.v.* who erects pipes of sprinkler apparatus by which a room or factory is automatically flooded should fire occur.

sprinkler fitter, see pipe joiner, sprinkler.

tube fitter, see pipe fitter.

252.—PLUMBERS (not Chemical Plumbers).

meter fitter (water works); a plumber *q.v.* who fixes and joints all fittings, i.e., taps, meters, *etc.*, in connection with service.

plumber; works mainly in lead; fits, joints and repairs lead, iron or steel pipes for conveyance of water or drainage in buildings, ships, railway coaches; cuts piping with chisel or hacksaw; bends by inserting a flexible mandrel or by first filling lead pipe with resin or sand to prevent buckles; makes lead joint by wiping molten lead over joint; screws ends of iron piping with stocks

and dies and caulk joints with lead; inserts and sets traps and cools; installs flushing apparatus, automatic or lever; sometimes specifically designated, e.g. sanitary plumber, ship's plumber.

plumber and gas fitter (235) *q.v.*

three branch hand; a man who can undertake plumbing, painting and glazing.

water fitter; fixes and connects pipes for conveyance of water; usually combine duties of plumber and hot water fitter (245) *q.v.*

253.—PLUMBERS' LABOURERS.

lead burner's helper; assists lead burner (342) *q.v.*, cuts lead sheet with shears, hammer and chisel; holds up work; generally fetches and carries material and tools; is usually an apprenticed chemical plumber (247) *q.v.*

plumber's labourer, plumber's mate, assistant plumber (252) *q.v.*; carries tools and helps them when necessary; fills blow lamp with spirit, lights and prepares it for use by plumber, must know different kinds of pipes and names of pipes; gets material for gutters, etc., on to roofs.

water fitter's mate; assists water fitter (252) *q.v.*; holds tools, cuts and screws pipes, with hack saw, pipe cutting tool, stocks and dies.

254.—PRESS WORKERS AND STAMPERS (not Hot or Hydraulic); DRAWERS (not Wire or Tube).

armature die notch and stamper; a stamper *q.v.* who feeds various shapes of armature discs into automatic machine which stamps out notches; watches proper working of machine and places notched discs in a stack.

beader (tin boxes, etc.); a press hand *q.v.* who places machine folded body of tin (see former, body) on block of beading machine and operates lever to form a beaded edge for seaming on top or bottom, etc., or as finish to top; removes box after the bead or rim has been formed.

boot rivet maker, see **cutler**, **boot rivet**.

bottomer, see **seamer**, **double**.

brad maker; a nail maker *q.v.* making brads, thin small nails of some thickness but tapering in width from head to point.

bolt cap maker (fisher rods), a draw brad, thin small nails of some thickness of fishing rod sections.

candle maker; a drawer *q.v.* who presses out a candle heading called candle, used for candle edging, etc.

cap maker (electric lamps); a draw press hand *q.v.* making brass caps for electric lamps in a die press.

case maker (cartridges); a press hand *q.v.* operating a power press which stamps out metal cartridge cases.

caulker maker, see **clug iron maker**.

channeller; a stamper *q.v.* operating a power machine which stamps out channel sections from strip metal; may alternatively roll strip between flange rollers.

chipper (fish hooks); roughly forms points on fish hooks after they have been flattened, by holding under kick stamp.

circle hand, see **cutler**, **circle**.

clock key maker; a stamper *q.v.* operating a power machine which stamps out clock keys or their convenient parts.

clug iron maker; **caulker maker**, **clug iron maker**; a stamper *q.v.* stamping out clug iron, by operating a power stamping press.

coiler, coiling press operator, coil maker, see **stamper**, **coil**.

cracker (pens), see **piercer** (pens).

crosser (clang), see **squasher** (edge tools).

cut nail and spring maker; nail maker *q.v.* making cut nails and brads (springs) from sheet metal.

cutler; **cutter-out**; operates a press stamping machine, cut out from sheet or strip metal or rod, special shapes required for making clug iron, button centres, metal bedstead laths, pens, etc., inserts sheet metal between guides and moves lever with hand or foot to apply power; sometimes specifically designated, e.g., bar and pen cutler, clug iron cutler, leaf cutler, linen knives cutler, sucking cutler (bedstead laths), shoe tip cutler, tea pot cutter-out.

cutler, boot rivet; **boot rivet maker**; fixes cutting tools, dies and gauges, and adjusts and repairs automatic rivet cutting machine; supervises efficient running; may also make necessary dies for use in machine, cf. **die cutter** (252).

cutler, centre (pens), see **piercer** (pens).

cutler, circle; **circle hand**; a cutler *q.v.* pressing out circular shapes from sheet metal for lids, trays, etc.

cutler, nail, see **nail maker**.

cutler, nail blade; a stamper *q.v.* who cuts out pen knife and pocket knife blades with an indentation for the finger nail; may also grind edge in grinding machine.

cutler, shoe bill; **shoe bill maker**; a nail maker *q.v.* stamping out shoe bills, i.e. small brads used by shoemakers.

cutler, sparrow bill; **sparrow bill maker**; a nail maker *q.v.* stamping out sparrow bills, i.e., small brads used by book and shoe makers.

cutler-out, see **cutler**.

cutler-out (cutlers); cuts off by press or guillotine, fish or flange left on blades after forcing or stamping.

cutler-out, section (machine knife); marks out steel sheets from tenon plates; stamps, presses or files out blanks of knives for agricultural cutting implements; cf. **machine knife cutler-out** (278).

drawer (not wire or tube), **draw press hand**, **draw press worker**; operates power press which draws out through dies, presses and cuts off brass or other metal tube to form cartridges; carries electric lamp caps and holders, tubes, ferrules, etc.; inserts tube and moves lever with hand or foot to apply power; sometimes specifically designated, e.g., brass cartridge case drawer, envelope drawer (bullet), gas burner drawer, steel drawer, turbine blade drawer.

embosser; **ornamentor**; a press hand *q.v.* operating a power press which produces a raised design or ornamentation on metal articles.

expander; a press hand *q.v.* who expands or increases internal measurement of sheet metal article or annular forcing by placing it under machine press tool.

feeler maker; a press hand *q.v.* who feeds and stamps automatic machine making feelers from sheet brass.

flyer, **eye maker** (needles); **puncher**, **eye puncher**; sets up, feeds and controls fly press which pierces eye holes in double needle blank; **oboliscant** see **stamper**, **needle**.

fancy tin worker; a press hand *q.v.* who operates a power press which stamps and presses out articles of tin, e.g. tins or fancy cake tins, sold in small ware trades.

flanger; a press hand *q.v.* who stamps a flange on edge of sheet metal, e.g., one body of tin box or canister for seaming.

flyer, blade; **flyer-out**; a fly press worker *q.v.* stamping out blades of cutting tools and cutlery from sheet steel.

flyer (fishing tackle); a fly press worker *q.v.* stamping out metal parts of fishing tackle.

flyer-out (cutlery), see **flyer**, **blade**.

flyer tube blocker; a press hand *q.v.* who inserts lining or roving barrel into flyer and closes its hollow tubular arm or leg, by placing in a hand press.

former, body; **draw former**; a press hand *q.v.* who feeds and operates machine which rolls or presses bodies of tin boxes, canisters, etc., into required shapes; sometimes more specifically designated, e.g. automatic body former.

former, box; (i) see **former**, **body**; (ii) a press hand *q.v.* who feeds and operates a power press which stamps out seamless tin boxes, canisters, etc.; **former, brass former**; a press hand *q.v.* who operates a power press which forms from blanks, stamped or pressed brass metal parts, in readiness for further embossing, etc.; cf. **brass former** (247).

frame maker (cycles); a press hand *q.v.* who presses out frame of cycle frame, e.g., ball head lug, fork crown, seat lug, bottom bracket, back fork ends.

gas burner reducer; a drawer *q.v.* operating a power press which shapes reducing parts of gas burner.

hater (metal washers); a stamper or fly press worker *q.v.* who cuts metal washers out of sheet metal.

hook maker, **hook and eye maker**, see **stamper**, **hook and eye**.

klacker (die), **die klacker**, see **stamper**, **klacker**.

lagrella maker; a press hand *q.v.* who makes lagrella fasteners of steel for connector ends of machine belting.

lever worker; a fly press worker or general press hand *q.v.* operating press by pulling lever.

machine attendant, **machine hand**, **machine minder**, **machine operator**, **machinist**; general terms for workers on power-driven presses and stamps; duties vary according to machine, but operations usually consist of placing sheet metal or partially formed sheet metal article against gauges in bed of machine and releasing press or stamp by means of hand lever or foot treadle; removes article by hand, if not automatically ejected by machine; does not usually set or adjust machine, which work is done by machine tool setter (211) *q.v.*; sometimes specifically designated, e.g., canister maker, machinist, chain making machine, (cycle) circle machine attendant, nail machine minder, capcase making machinist, safety pin machine hand.

marker (pens); a stamper *q.v.* applying trade marks and other imprints to stamping pens.

medallist, **medal striker**, as for **stamper**, **coin**.

nail machine minder (stamped nails); **nail maker**, **nailer**; (i) a cutler *q.v.* who feeds cut nail making machine with strip iron or steel; (ii) **nail presser**; a press hand *q.v.* who feeds machine press with sheet metal or wire; sometimes specifically designated, e.g., wire nail machine minder, **nail maker**, **nailer** (stamped nails); **nail cutler**; (i) sets up cut nail making machine, making necessary hand adjustments of cutting tools, feed mechanism, etc.; (ii) supervises working of machine, if automatic, and nail machine feeders (279) and minders *q.v.*, if semi-automatic; (iii) see **nail machine minder**.

neckard-in; a press hand *q.v.* who attaches necks to tin boxes, bottles, canisters, etc., by machine seaming, see **neckard-in**, **neckard** (262).

notch maker (washers); a stamper *q.v.* who makes metal notch or disc into which ribs are fitted.

ornamentor, see **embosser**.

perforator; a press hand *q.v.* perforating metal rod, sheet, strip or articles.

petrol can maker; general term for press hands making petrol cans, including beader, cutter-out, former, flanger, seamer *q.v.*

piercer; a stamper *q.v.* operating press stamp which pierces holes or

holed design in metal, sometimes specifically designed, e.g., brass piercer, curly comb piercer, key piercer, sword hilt piercer.

piecer (pens): *centre cutter, cracker, side stiffer*; a press hand g.v. operating a semi-automatic power press which pierces holes in pens and also cuts side slits.

point splitter (pens), *see* **stiffer** (pens).

presser, **presser-out**, **press head**, **press operator**, **press worker**; **machine presser** (from *holder-up*): general terms for workers operating hand or power machine which presses sheet metal, rod or wire into shape in metal dies; usually feeds metal sheet or pieces of metals, previously cut to shape (see *cutter*), under press between guides and applies power by pulling or kicking lever or by pressing treadle; may simply feed automatic press by placing blanks in feed hopper or roll of sheet or strip metal on feed roller; otherwise pressed articles by hand if these are not automatically ejected by machine; in some cases acts up machine with appropriate dies; sometimes specifically designated, e.g., buckle presser, carriage presser-out (textile), comb presser-out (textile), detonator presser, key presser, nail presser, sinker press hand, steam press worker.

presser, machine (from *holder-up*), *see* **presser**.

presser, nail, *see* **nail machine**.

pressman, rim (motor); a press hand g.v. operating a power press to stamp out spoke holes on rim of wheel.

press stamp worker; a press hand g.v. operating a press stamp with cutting die which cuts out end of sheet and presses into shape in die.

press worker, **2y**; **hand press worker**; operates by press for pressing or punching small metal articles; sets sheet metal between guides on top of machine; power round wish hand overbed levered or heavy hand on horizontal arm to cause cutting die to descend on metal; may pull string or lever to operate press.

press worker, power; **power press hand**; a press hand g.v. operating a power press as distinct from a hand or 2y press.

puncher, **eye puncher** (needles), *see* **eye** (needles).

puncher, **press press worker**, *as for* **stamper**, sometimes specifically designated, e.g., machine knife puncher, scissor puncher.

puncher, spring; a press hand g.v. who pierces and punches steel springs for rolling stock; cf. **spring stinger** (200).

ralser, rounder (pens); a press hand g.v. feeding flat stamps into dies of semi-automatic power press which gives them a rounded shape.

seamer, **seaming machine operator**; a press hand g.v. who places tin boxes and iron hollow-ware, which have been previously flanged (see *flanger*), on holder of power press and operates press to form seams.

seamer, double; buttseamer; a seamer g.v. who operates a seaming machine which makes a double turned seam for greater tightness.

shaper (pens); a cutter g.v. making steel blanks from sheet metal.

shell cupper, *see* **stamper**, **shell**.

shoe bill maker, *see* **cutter**, **also **bill**.**

slitter (pens); **point splitter**; a press hand g.v. who splits points of steel pens with a fine precision press tool.

slitter, side (pens), *see* **piecer** (pens).

sparrow bill maker, *see* **cutter**, **sparrow** **bill**.

splitter (needles); splits heads of needles on kick stamp in process of making calyx-eyed needles, a special kind of sewing machine needle with eye at top.

spring case maker; a press hand g.v. who presses out from sheet metal, spring cases for pistols, rifles, etc.

squabber (edge tools); **resser** (slows); a drop stamper g.v. who crosses or strikes a rib on an edge tool, e.g., box.

squarer (needles); a stamper g.v. who stamps round section wires to triangular section on power stamp for glove maker's or nail maker's needles.

stamper (not hot or hydraulic), **die stamper**, **metal stamper**; **stamping press hand**; general terms for workers operating stamping machines, which cut out or press into shape, sheet metal, wire or rod, under a weighted cutting or shaping die which drops under gravity, or is thrust down sharply by power, as distinguished from the more slowly moving press; feeds sheet metal, etc., under stamp between guides and operates stamp by pressing foot treadle or pulling or kicking strap or lever; may also set up stamping machine by inserting appropriate cutting or shaping dies; sometimes specifically designated, e.g., buckle stamper, brass stamper, chair nail stamper, coin stamper, eye stamper (needles), ferrule stamper, gun metal stamper, hilt stamper, key stamper, needle stamper, oval stamper, split ring stamper, table blade stamper, zinc cash bar stamper.

stamper, coin; **coiner**, **coining press operator**, **coin maker**; a stamper g.v. who stamps and presses coins, medallions, or badges between engraved dies in a power stamping press.

stamper, drop; a stamper g.v. operating a drop of gravity stamp, as distinct from a machine in which the stamping die is thrust down by power, to stamp out disk covers, pan handles, ladles, etc.; cf. **drop stamper** (100).

stamper, eye, *see* **stamper**, **needle**.

stamper, hook and eye; **hook maker**, **hook and eye maker**; feeds with wire and strip or sheet metal on automatic press stamp which makes hook and eye.

stamper, kick; *the kicker, kicker*; a stamper g.v. operating a stamping machine by kicking a lever or pressing his foot against a strap.

stamper, needle; **eye stamper**; sets up, feeds and controls machine which automatically stamps out centre of wires (the length of two needles) and impresses two oval dents close together on both surfaces thus flattened, in preparation for eyeing, set eye, or completely shapes head and end of needle in one operation.

stamper, shell; **shell cupper**; a stamper g.v. who shapes brass sheet blank into cap or basin in first operation of forming brass shell cases up to 8 inches.

stamper and piercer, **die stamper and piercer**; a stamper g.v. operating a stamping press in which the die both punches and pierces the metal, e.g., badges.

stamping press hand, *see* **stamper**.

stamping, as for **nail maker.**

stitch maker; a nail maker g.v. who sets up and sometimes operates a power press which makes a cut nail called a tingle.

toothed, saw toothed; a press hand g.v. cutting out teeth from cast blanks; sometimes specifically designated, e.g., hand saw toothed.

turn over; a press hand g.v. who turns over edge or flange, usually of blank of a metal article.

watch key maker, *as for* **clock key** **maker**.

255.—RIVETERS.

eye riveter; a machine riveter g.v. who rivets stems to mudguards, lubricator clips over oiling holes, and other small accessories to wheels.

hand riveter; a riveter g.v. working with a hand hammer. usually works in dual spread either as right hand or in right or left hand, i.e., using hammer in right or left hand, and is assisted by holder-up and rivet catcher (250) g.v.

holder-up, holder-on, riveter's holder-up, **riveter's holder-on**; (i) inserts but rivets with tools into rivet hole, when this is not done by catcher (250) g.v., and presses heavy hammer or dolly against rivet head whilst other end of rivet is being hammered by riveter g.v.; (ii) manipulates apparatus of machine hammer for holding rivets in place and arranges gage to form a rigid backhold for them while they are being hammered.

hollow-ware moulder, hollow-ware riveter; a riveter, usually a machine riveter g.v., who operates a riveting machine or riveting press to fasten handles and other fittings to hollow-ware.

hydraulic riveter, hydraulic riveter attendant; a machine riveter g.v. operating head of riveting machine, the hammer of which is actuated by hydraulic power, and is applied to head through flexible pipes.

inside riveter; a riveter g.v. working on interior structure of a ship.

leverman riveter, *see* **steam riveter** **attendant**.

machine riveter, riveting machinist; a riveter g.v. who controls head of riveting machine; holds hammer against rivet end and applies power (hydraulic, pneumatic or steam) to hammer by pressing trigger lever; **pneumatic riveter, pump-pump riveter**; a machine riveter g.v. using riveting machine driven by compressed air, fed to hammer head through flexible pipes.

riveter; makes rivet (usually red hot, but sometimes cold) fast in position, by hitting it repeatedly and rapidly on end with a hand or power-driven hammer, in order to spread or "mushroom" the rivet end and so lock it tight in hole through plate or more plates; is assisted by holder-up and rivet catcher (250) g.v.; sometimes specifically designated according to tool used, article riveted, etc., e.g., hand riveter, hydraulic riveter, pump-pump riveter, bridge riveter, boiler shop riveter, boiler riveter, forcing riveter, girder riveter, iron wheel riveter, powder canister riveter, salt pan riveter, telegraph tubing riveter.

riveting machinist, *see* **machine riveter**.

shell riveter; a riveter g.v. working on outside or shell plates of a ship.

stay riveter, **stay hole riveter**; a riveter g.v. who rivets in position copper stays of locomotive boilers.

steam riveter attendant; **leverman riveter**; a machine riveter g.v. who operates a riveting machine driven by steam power.

256.—RIVETERS' LABOUREES.

assistant holder-up, *see* **hammer**, **hammer-up**; **assistant holder-up**, **assistant holder-up** (250) g.v. of riveting squad, where assistance is required on heavy work or in awkward places, by knocking up holding-up beginner with hammer.

catch boy, catcher, catcher boy, *see* **rivet catcher**.

heater, heater boy, *see* **rivet heater**.

rivet boy; (i) works bellows for rivet heater g.v. and throws or passes the rivets to riveter (250) or to rivet catcher g.v.; (ii) a boy employed as rivet carrier or as rivet heater g.v.

rivet carrier; **rivet heater**; carries hot rivets in shovel or tongs from fire to riveter or to holder-up (250) g.v. in riveting squad.

rivet catcher; **catch boy, catcher, catcher boy**; catches or picks up, in tongs, hot rivets thrown to him by rivet boy g.v. or by rivet heater g.v. and passes them to riveter or to holder-up (255) g.v. in riveting squad; sometimes also inserts them in rivet holes.

rivet counter; counts rivets, placed in position by riveters, for purpose of cost and wages calculations.

riveter's helper; **riveter's labourer**; general terms for workers assisting

fitter, beam; scale beam **fitter**, see beam maker.

fitter (scales and weighing machines), weighing machine **fitter**; makes up and fits together counter or stand weighing machine, beam balance, platform machines, and other heavy types of weighing machines, from castings and machined parts; operation as for **fitter** (260); sometimes specifically designated, e.g., dial weighing machine **fitter**, spring line weighing machine **fitter**, weighing **fitter**.

fitter, steady, see steady maker, repairer, scale repairer, weighing machine repairer; a **fitter** g.e. engaged in repair work, either in factory or repairs depot, of customers' premises; replaces worn knife edges or files them sharp again; adjusts proportional weights; may dismantle machine and replace broken or bent levers, etc.

scale maker, counter scale maker, counter scale and balance maker; makes up from machined and manufactured parts, scales, French balances, and other scales and counter weighing machines, such as are found in stores and retail shops; fits and adjusts bearings and tests balance with standard weights; uses vice, files, screwdriver, and various hand tools at bench.

scale pillar maker; makes up pillar and stand from cast and machined parts for scales and steelyards; fits parts together with bolts and screws and files where necessary, using hand tools at bench.

steady maker; **steady fitter**; or for beam maker; measures and marks divisions on yard and cuts marks and figures with file and steel punches; adjusts steady on pillars carrying them.

tester, weighing machine tester, see adjuster, weighing machine.

weighbridge maker; a **fitter** g.e. who specializes on fitting and erecting weighbridges.

weighing machine maker; a weighing machine **fitter** g.e. who is experienced in all types of weighing machines and also able to adjust them, see adjuster; sometimes specifically designated, e.g., automatic weighing machine maker, dial weighing machine maker, visible weighing machine maker.

woffler; slang term for a repairer g.e. engaged in adjusting and repairing scales and weighing machines on customer's premises, either working on own account or for manufacturer.

261.—SIGNAL LINEMEN.

chief linesman; working head of a gang of signal linemen g.e. for construction or maintenance of wiring for railway signal system throughout specified area; responsible for wiring, connections, etc., between signal box levers and signals, points, etc.; cf. signal chieftain, and chief linesman (railway telegraph) (211).

signal chieftain, see chief linesman, works under workshop conditions as distinct from Railway Conciliation Agreement conditions.

signal fitter, see signal linemen.

signal linemen; signed **fitter**; usually one of a gang engaged in periodic inspection and repair of lines of wire, etc., connecting signals with signal boxes, or on construction of new signal lines; is able to fit up, repair or replace all parts (wire, rods, joint castings, pulley wheels) between box levers and signals.

262.—SOLDERERS AND BRAKERS.

braker, brasher; **hard solderer**; joins together parts of steel, iron, brass or copper articles by brazing or hard soldering; cleans surfaces to be joined; heats parts with gas flame and blow pipe, applies a flux and finally brass filings or filings of another copper alloy appropriate to the article to be brazed; after jointing, smooths joint

with bit and when cold, with file or on an emery wheel; sometimes specifically designated according to metal or article to be brazed, e.g., barrel braker, copper braker, cycle braker, frame braker, brass braker, iron braker, tube braker, wire braker.

braker, chassis frame; a braker g.e. who brazes together parts of motor chassis frames; brazes on hubs, brackets, etc., and fills up blow holes and peckets in metal parts of frames; may also do odd tinmithing jobs on car accessories.

braker, frame (cycles); **cycle braker**; **heater**; heats frame, forks, etc., of cycles to red heat; pours on joints first powdered brass and then brass filings, which melt and fill up crevices, thereby welding parts together.

braker, iron; a braker g.e. who brazes or welds together joints or broken parts of iron or steel ware, using spelter or brass as a solder.

braker, wire; brazes ends of conductors in cables, which have already been correctly linked together by cable splicer (269) in preparation for covering them with insulating material, also welds steel tapes, used with some paper- or lead-covered cables; cf. wire welder (268).

braker, and plateworker, copper; cuts and shapes, with hand tools, sheet copper or brass accessories for cycles and motors, and brazes (see braker) or rivets, see riveter (263), component parts together.

braguer; a solderer g.e. who hermetically seals the ends of metal after covering process is complete, by soldering over leakage hole left for escape of air and steam while tube is in pressuring vessel.

bender (cycles), see braker, frame.

becker, necker-in; a solderer g.e. who puts together and solders bottles, etc., to bottles; cf. necker-in (254).

solderer; joins together component parts of metal goods by melting between the surfaces with a copper bit, using very hot, a metal alloy or a soft solder of lead and tin or brass; previously prepares the article to be soldered by filing or scouring to produce a clean surface and means on a chemical "flux"; works in most metal trades, and in other trades which involve working in tin, and consequent soldering of lids, in hermetic sealing, sometimes specifically designated, e.g., brass solderer, brass tube solderer, comb needle solderer, hard solderer, kettle solderer.

solderer, hard, see braker.

soldering machine minder; controls soldering machine minder; handles operating soldering machine which hermetically seals time containing food; regulates gas supply and maintains feed of solder and flux periodically; places tin in position by machine and removes when this is done; operates automatically by conveyor or revolving platform.

sweater, tinner; a solderer g.e. who unites two pieces of flat metal by coating them with tin, heating them to melt tin, and pressing surfaces together.

tinner, see sweater; cf. tinner (263).

263.—TINNERS.

binding band solderer, see coil tinner.

coiler (tinplate), see tinner.

coil tinner; dissolving band solderer; covers with a coating of tin, usually dissolving from band of wire round round armature coils.

copper tinner; a tinner g.e. who coats with tin, copper kettles, pans, and other cooking utensils, by dipping process; carefully cleans surface to be tinned; anneals with or dips in flux and then in pot of molten tin, if needed it is to be tinned only inside, while molten tin rapidly runs to cover interior of pan, and pours out excess tin.

grease tinner; a tinner g.e. who coats with tin pans used for catching grease in cooking stoves.

tinman, tinner, tinplater (tinplate manufacturer), **copper** (tinplater); stands in front of pole on tinning machine and feeds sheets one at a time, downwards, through flux and covering layer of palm oil into molten tin; is responsible for putting tinning materials in pots of machine, and for smooth running of plant.

tinner (bottle-ware goods); coats bottle-ware goods with pure tin, tin and lead mixture, or pure lead; prepares articles by passing them through both of these (sometimes preheating cleaning them with acid), dips them in vat of molten tin, etc., and then in bath of palm oil, in coating flask-locks, suspends books in an electrolytic bath, to avoid too thick a deposit of tin on the books; cf. tinner (265).

tinning machine driver; **wire tinner**; attends tinning bath and machine which tins wire for use in electric cable making; places coils or drums of wire on swift or spindles at side of tinning machine and of wire through tinning bath and fastens to rewinding drum or spindle; adds metal to tinning bath as required and regulates temperature of molten metal by gas valves.

264.—TINSMITHS; SHEET METAL WORKERS.

bender, bending maker; cuts and bends a length of brass or metal, by drawing through die on draw bench, file the tube or trough thus formed by pouring in molten lead; draws again through die on draw bench; drills and taps screw holes, if necessary.

beam maker; a sheet metal worker g.e. who makes burrles for brass toe lace machines from template or sheet metal, and finishes them to shaft; cf. band turner (486).

bender, panel bender; **panel maker**; shapes, by beating over a block with hand or machine hammer, sheet metal into various shapes according to pattern, e.g., panels for motor cars.

bell maker (brass musical instruments); cuts flat sheet of brass or copper to size and shape required, with hand or machine shears, and beats it out into shape for cornets, trumpets, etc., with a hammer on a mauler, if bell is not all in one piece, brass parts together, cf. braker (262).

board maker, bobbin (metal); top **creel board maker**; (1) a sheet metal worker g.e. who makes supports, or "boards" for bobbins and pins, for use in textile machinery; (2) a sheet metal worker g.e. who covers bobbin boards, pins, heads, and creel boards with sheet metal.

bonnet maker (motor car); a sheet metal worker g.e. who bends sheet metal to bonnets and patterns and sets by hand or machine; or by machine; solders wire to edges for stiffening purposes, also solders or rivets on hinges, handles, etc.

boxer-up (kegs, drums); assembles cylinders and heads of kegs or drums and fits iron hoops, using hand hammer; closes seams round top and bottom edges by passing between vertical revolving wheels of sewing machine.

brass shell maker (drums); bends brass shell metal into cylindrical form, braces joint, turns edges over wire, and smooths them with a small wheel machine called a **ponny**.

bucket maker; **bucket**; **poil maker**; a sheet metal worker g.e. who cuts out, makes up, rivets together and solders, brackets or rails from stamped sheet metal.

canister maker, tin canister maker; on bag maker; puts together stannum, dyed, or tinned or painted of canisters or tin boxes and solders joints to make them watertight; usually works

on tin boxes of large type and specially designated according to kind of article, e.g., grocer's canister maker, tea canister maker.

can maker; rolls into form, and rivets or solders, stamped parts of cans; sometimes specifically designated, e.g., beer can maker, milk can maker, oil can maker; riveting can maker, collar can maker, water can maker.

carriage roller maker (textile machinery); a tinsmith *q.v.* who makes, or builds up, "tin roller" or tinplate sections of rollers for carriage of a mule spinning machine.

case maker (metals); a tinplate worker *q.v.* who makes cases for gas or water meters.

case maker, tin, see *liner*.

dieter maker; a sheet metal worker *q.v.* who makes dieters from sheet metal; cuts sheets in shearing machine, bends them in bending machine, drills or punches holes for rivets; rivets sides to strengthen corners with riveting machine, see machine riveter (250).

coffee pot maker; a tinsmith *q.v.* who specializes in making coffee pots and similar utensils.

cooking utensil maker; makes cooking utensils by (i) assembling partly stamped component parts, and riveting, soldering, and making them up, (ii) spinning them on a lathe, from sheet iron or other metal, (iii) stamping and pressing them from sheet metal; cf. press hand, stamper (264).

cutler; cutter-out (sheet metal); cuts blanks from sheet brass or other metal under guillotine or power shears; sometimes specifically designated, e.g., tin cutler.

cutler, panel; panel maker; cuts and shapes by machine, sheet steel panels for railway carriage doors, sides, etc.; measures and marks sheet for cutting; places sheet under knife of power-driven cutting machine; passes electric between rollers of shaping machine; marks out and drills or punches holes for screws in drilling machine.

cylinder end maker; a sheet metal worker *q.v.* who makes ends of cylinders (either than those which are cast) used in textile machinery.

cymbal maker; spins and turns sheet metal on lathe to form common varieties of cymbals, drills out hole in centre.

dairy utensil maker; a sheet metal worker *q.v.* who cuts out, rolls, bends, and shapes tin or zinc plate and so makes utensils, for use in dairies, etc., by riveting and soldering with cast parts, e.g., pail bases, handles.

drawer maker (saws), see *fittings maker*.

drum maker, drum and keg maker; key maker; (i) a sheet metal worker *q.v.* who cuts out, rolls and shapes sheet metal, rivets seams and fits brass and end flange, punches, and lugs; (ii) (where work is specialized) general term for semi-skilled workers engaged on drum and keg making, including cutter, solder (270), roller (270), groover (270), press hand (264), heater, and tapper (270), mender (262), tryer (273) *q.v.*

drum maker, see *pipe maker, air*.

fittings maker (saws); drawer maker, *sofe fitter*, a sheet metal worker *q.v.* making internal fittings of saws throughout, e.g., drawers, cupboards, shelves, may also fit drawers, etc., in place in saw.

iron and tin plate worker; a sheet metal worker *q.v.* who can work both in iron plate and tin plate.

iron plate worker; plater, sheet iron stretcher (textile machinery), sheet iron worker; cuts and drills, or bends into shape, with machine shears, drills, bending machine, punches, and rollers, thick ironplate for boilers, ovens, doors, walls, etc.; for workers in thin metal plate, see *sheet metal worker*.

leg maker, see *drum maker*.

kettle maker; a tinplate worker *q.v.* who assembles, by riveting, seaming, or soldering, various stamped, spun, and pressed metal parts to make a kettle.

lamp maker; a sheet metal worker *q.v.* who assembles and solders together component parts of motor, cycle, carriage, etc., lamps; sometimes specifically designated according to kind of lamp made, e.g., carriage lamp maker, cycle lamp maker, motor car lamp maker.

lining, packing; case liner, lining maker; tin case maker, tinman; cuts sheet tin, zinc or lead to fit, as lining for wood or metal boxes, by means of treadle guillotine or hand shears; joins sides by soldering, and drops lining into box or case; turns flange over top edge of box or case; sometimes also solders on lid of tin or zinc, when box is packed.

meter maker, gas; a tinplate worker *q.v.* engaged in making bodies of gas meters; sometimes specifically designated, e.g., wet gas meter maker.

meter repairer, gas; a gas meter maker *q.v.* engaged in repairing bodies of meters; repair of recording and checking mechanism is done by gas fitter (236) *q.v.*

panel maker, metallic pail maker, see *tin worker*.

panel maker; (i) see *baster*; (ii) see *center, panel*.

powterer; makes pots, dishes and other vessels from sheet pewter (mixture of tin and lead, tin predominating), by the processes of a sheet metal worker *q.v.*; may also shape pewter articles by spinning on a lathe; may fix pewter trays and spirit pipes in a public house.

pipe maker, air; sheet worker; a sheet metal worker *q.v.* who makes air shafts from sheet iron or steel by bending it into circular, square, or other cross-sectional form, and riveting seams, erects section of pipe in position and joins it to sections of pipe shaft already erected by riveting.

pipe maker (organ); (i) casts a metal alloy of tin, lead and zinc, mixed in prescribed proportions; casts out pieces of metal to scale and flat of pipe required; (ii) rounds cast metal on a mandrel, and solders edges and other parts together.

planisher; operates high-speed, power-driven, planishing moulder, which removes all dents, creases, and irregularities, polishes and puts fine finish on metal articles; turns metal about on table of machine as necessary, also, with hammer or wheel, perforates, raises, presses, bevells, mixes, and performs other similar operations in sheet metal.

plater, see *iron plate worker*.

plater, last; boot last plater; cuts out metal plate with hand shears; moulds on sole-moulding machine; grinds edge on anvil; fits to last of last with nail or screw.

scale pan maker, scoop maker, scale; scoop maker; cuts, bends, and rivets, by hand, or stamps out under a power press, pans and scoops for counter scales; bends and solders edge over wire for rim strengthening purposes.

sheeter, steel; zinc sheeter; a sheet metal worker *q.v.* cutting and preparing steel or zinc sheets for use in covering boiler clothing.

sheet iron smith; a sheet iron worker *q.v.* who shapes pipes, ducts, etc., with hand tools on an anvil; welds and rivets seams and joints.

sheet iron stretcher (textile machinery), sheet iron worker, see *iron plate worker*.

sheet metal worker; general term for a skilled craftsman who works in thin sheet metal, i.e., zinc, tinplate, galvanized iron; marks out metal from template or dimensioned sketch and cuts it by hand or power shears, or treads guillotine; shapes it, by

hand with hammer, mallet and forming blocks or rolls, or by pressing in pressing or stamping machine, see pressman (266); sometimes shapes by pressing sheet between appropriately shaped power-driven rollers or by bending in bending machine; makes joints by various methods according to article produced; may bend and hand edges of seam in seaming machine, or rivet overlapped joint by first drilling or punching holes in drilling or punching machine and then riveting in riveting machine or by hand with hammer; may weld or solder joint, see welder (190) and (249) or solderer (249); attaches handles and other cast or machined fittings by riveting, soldering, etc., to make required articles, e.g., domestic and culinary utensils, motor body parts; for worker in thick sheet metal, see *iron plate worker*.

sheet worker (metal); a sheet metal worker *q.v.* working on sheet metal work of carriages, etc.

spout maker (cannon); a sheet metal worker *q.v.* making spouts of sheet iron for conveying cement into bins in warehouse, cf. spout maker (474).

tin box maker, see *canister maker*.

tin hollow-ware maker; a tinplate worker *q.v.* who makes up from tinplate or sheet tin, articles of hollow-ware, e.g., water cans, coffee pots, spoons, kettles, cooking utensils.

tinker, travelling tinker; (i) a tinsmith *q.v.* engaged upon repairing household utensils, and in sharpening cutlery; solicits work from house to house, travelling with a large assortment of goods, soldering, soldering pot, etc., or, in country districts, to a caravan, which often also carries miscellaneous articles, such as tinware, brushes, baskets for sale; (ii) a tinsmith *q.v.* on board ship.

tinker, brass; a tinker *q.v.* who specializes in work on and repair of brass and copper articles.

tinman; a tinplate worker; (i) see *liner*.

tinplate worker, tinsmith, tin worker; tinman; a sheet metal worker *q.v.* who works in tinplate, i.e., sheet steel coated with tin, cutting, rolling, raising, hollowing and shaping tinplate, and closing rims, soldering, seaming, or riveting joints of articles, e.g., domestic utensils, and cans for food preserving.

tray maker, tin tray maker; a sheet metal worker *q.v.* cutting, bending, soldering, or riveting metal trays.

trunk maker, iron; tin trunk maker; a sheet metal worker or a tinplate worker *q.v.* making travelling trunks from sheet iron, or tinplate, by cutting, shaping, riveting, etc.; fits hinges, locks, and other fittings.

tube maker (brass musical instruments); cuts flat sheet of brass or copper into strips of required size and shape; forms the strips into a straight or tapered tube by lapping metal strip over a steel mandrel, and joining seams with spelter solder.

urn maker; a sheet metal worker *q.v.* who assembles, spins, pressed, and turned metal parts of an urn, by riveting, soldering, or brazing; works in copper, brass, or tinplate; for copper urns made by hand planishing, see coppermith (227).

wheeler (brass finishing); a planisher *q.v.* using a machine in which component parts of sheet brass articles are planished or turned upon a wheel in a lathe.

whitesmith; a jobbing tinsmith *q.v.* working for an ironmonger (770) on repairs to plated sheet metal and hollow-ware goods.

wing maker; a sheet metal worker *q.v.* who specializes in making wing parts of motor bodies, such as mudguards.

zinc goods maker, zinc plate worker, zinc worker; or for tinplate worker, making zinc goods such as trays, guttering, ridges, pails, etc.

265.—TOOL MAKERS.

die sinker (tool maker); a highly skilled tool maker *q.v.* specializing in manufacture of dies, chiefly for use in ornamental metal work, such as chandeliers, lamps, etc.; turns to shape on lathe, grinds or mills in milling machine and finishes with hand tools at bench; *cf.* die sinker (230).

gauge maker, gauge plate maker; a highly skilled craftsman draws from grades of turner (230), fitter (210) or scientific instrument maker (229) *q.v.* who has specialised in accurate work; shapes a piece of hard steel to rough size of gauge or template by means of lathe or other machine tool; grinds gauge to approximate dimensions required, on a precision grinding machine and, with great care, finishes to exact dimensions by delicate hand tools; always works to very definite sizes and passes his work by use of micrometer, or with even finer gauges than those which he is engaged in making; sometimes specially designated, *e.g.*, tyre gauge maker.

jig maker; a tool maker *q.v.* who specialises in jigs, *i.e.* tool guides or templates for repetition work; cuts steel plate, according to blue print, with guillotine, shears and hack saw; drills and punches jig as required after accurate measurement; assembles and screws together parts, if jig made in parts, sometimes case hardens bench of each hole and all edges, *see* case hardener (224).

jig and gauge maker; a gauge maker *q.v.* making both jigs and gauges.

tool fitter; a tool maker *q.v.* in smaller engineering shops, cutting tools for lathes from tool blanks; may also set up lathes.

tool maker, engineers' tool maker; (i) makes dies, punches, etc., for press tools, or lathe tools, drills, reamers, etc., throughout, from tool blanks, by forging, dry grinding, hardening, tempering, and wet grinding, turning, milling, etc.; (ii) fitting; turns, mills, and grinds jigs and gauges, sharpens edges of tools bought from other firms; (iii) designs tools, and passes blanks to tool smith (100) *q.v.* for forging; superheats (200) *q.v.* grinder (237), turner (200), hardener (220), tinsmith (220), etc., and tests accuracy of their work; (iv) fits and erects lathes and other machine tools; (v) general term for any specialised mechanic making lathes, tools, jigs and fixtures, gauges, etc., in engineers' tool making shop, including miller (200), turner (200), hardener (220), grinder (237) *q.v.* (v) *cf.* machine tool maker, press tool maker, jig and gauge maker, die sinker.

tool maker, machine; general term for any worker, *e.g.*, boiler (209), grinder (237), gear cutter (200), miller (200), planer (200), fitter (210), turner (230) *q.v.*, specially engaged in manufacture of machine tools, such as lathes, drilling machines, shapers, grinders, etc.

tool maker, press; (i) is employed, usually in sheet metal workshops, to make press tools or dies for use in conjunction with power-driven or hand-operated presses; (ii) superintends work of turners (200), grinders (237), etc., *q.v.* engaged in manufacture of such tools.

266.—TUBE DRAWERS AND WELDERS.

barrel roller (gun); a tube drawer *q.v.* who draws tubes, for re-etching barrels of machine guns, in a tube drawing machine through a series of dies, to bring them to required size; *cf.* barrel roller (178).

becher (lathe); general term for any man employed at a draw bench, on which tubes are drawn; includes drawer, pier minder, lepper, welder.

brass tube former, *see* tube drawer, brass.

drawer, *see* tube drawer.

lepper, *see* welder, tube.

planner, *see* squencer; *cf.* piercer (279).

plier minder; grips end of copper or brass tube protruding through die, with special pliers and attaches pliers to dog or grips on chain on draw bench used for drawing copper or brass tube.

rollman; straightens finished tube by rolling under pressure between two plates; passes larger tubes through rotary roller mill which manipulates them straight; in both cases adjusts screws to control pressure between plates or rollers.

skelper, skelp turner; withdraws iron strip from heating furnace, and pushes one end through a die fixed to draw bench; grips end with dog and, by means of levers, draws strip through die, which rounds or turns strip into shape of tube, but does not rise joint.

speller, spell welder; (Scottish term) a welder *q.v.* working in intense heat, and therefore in short spells of alternate work and rest.

squencer; piercer; places red-hot solid steel blooms in hydraulic mould and applies power to drive a hard steel rod or glander through bloom in preparation for making solid-drawn tubes on draw bench, *see* tube drawer.

tube drawer; drawer; places rough tube in position for seamless drawing on draw bench, pushes and through die and grips it with temp, catches hook of grip on travelling chain and sets chain in motion, so that tube is drawn through die, in some works, places cold steel or other metal tube over mandrel and inserts tag (hammered end of tube) in die for dog to grip and draw, in other works, uses hot-drawn tube, fixes strip mill instead of rough tube in position on draw bench, and draws through special die as above; sometimes specially designated, *e.g.* copper tube drawer, cycle tube drawer, zinc tube drawer.

tube drawer, brass; brass tube former; a tube drawer *q.v.* making brass or bronze tubes.

tube drawer, cased; brass cased tube maker; places end of a cold piece of iron or steel tube, encased with brass or copper, through a die fixed at head of drawbench, grips tube in a wagon, or "dog," which is drawn by an endless chain along draw bench, causing outside case to adhere tightly to inner tube.

tube drawer, dring; operates drop stamp, which draws copper strip into tube form through die, for use in encasing high explosive detonators; pulls drop stamp up, by hand, after each stamping, and releases stamp by knocking a lever with the knee.

tube maker, brass cased, *see* tube drawer, cased.

tube maker, pipe; a tube drawer *q.v.* making solid-drawn aluminium tubes for tobacco pipes.

tube welder; (i) closes joints of tubes by butt or lap-welding edges together with a blowpipe by acetylene process; (ii) lepper, is in charge of furnace in which rings of metal are heated to welding heat; fixes hot strip through a bell, tongue or die on a draw bench (*see* tube drawer), or through roller (according to processes of manufacture), whereby the edges are squeezed and welded together.

aligner (typewriters); a typewriter mechanic *q.v.* who specialises in adjusting the type bars so as to obtain correct alignment in type-writing.

typewriter mechanic, typewriter maker, typewriter raparator; assembles and fits together parts of typewriters; repairs typewriters by renewal of parts, such as lathes and various hand tools and vice at a bench.

268.—WIRE DRAWERS AND MAKERS.

breaker-down (wire works); feeds wire rods into a machine roller which prepares them for final drawing.

drawer, *see* wire drawer.

drawer, wire rod; removes wire rod from furnace with tongs, and inserts end in die on draw bench; proceeds as for wire drawer.

flattener, wire flattener; wire roller (reed making); flattens or draws wire, with hand hammer or in machine roller press, for making "rods" (part of textile machinery).

ripper, *see* rougher-down.

rougher-down; ripper; a wire drawer *q.v.* who roughs-down wire, which is then further drawn by wire finisher *q.v.*

stripper; a wire drawer *q.v.* who does wire drawing only, and does not set his own dies or plates.

wire blocker, *see* wire drawer.

wire drawer; drawer, wire blocker; (i) set wire drawer, automatic; (ii) (hand operation) makes wire on a draw bench; sets dies or plates; hammers, files and rolls end of rod to push through die, engages end with pinions and draws rod through dies of decreasing diameter until required size is obtained; sometimes specially designated according to wire drawn, *e.g.*, brass wire drawer, bronze wire drawer, copper wire drawer, card wire drawer.

wire drawer, automatic, wire blocker, wire drawer; (i) sets up dies in draw plates of machine; hammers, files and rolls end of rod to push through draw plate; grip ends with pinions attached to chain wound round drum; starts machine and pulls enough wire through to wind two or three times round drum; stops machine, disengages pinions and chain and secures end of wire to drum with small screw clamp at vice; re-starts machine; repeats operation till required gauge is obtained; (ii) operates continuous drawing machine in same way; prepares machine by stringing up, *i.e.*, sets up the series of dies in draw plates, pulls through first length of wire, along and hammering end at each draw plate and feeling round successive blocks till end of wire is through last die and secured to winding drum, controls instant starting or stopping of automatic wire drawing machine by a lever (sometimes specially designated, *e.g.* auto wire drawer (hand steel wire for planes, etc.), pinion wire drawer, reed wire drawer (textile machinery), stem wire drawer (electric bulbs), tungsten wire drawer (tungsten wires).

wire drawer, electrical; a wire drawer *q.v.* who makes wire of copper, aluminium, German silver, or alloy, for electrical trade.

wire drawer, fine; an automatic wire drawer *q.v.* who makes wires of diameter below 20 standard wire gauge, on automatic machine, with diamond dies.

wire finisher; a wire drawer *q.v.* who draws wire to a final gauge, by passing it over a pulling die, by hand, through last or finishing die.

wire maker; general term for any worker engaged on actual production of wire, *e.g.*, wire drawer, wire flattener, wire finisher *q.v.*

267.—TYPEWRITER, ETC., REPAIRS.

adding machine inspector; examines adding machines, and, if necessary, accuracy; carries out adjustments and repairs.

adding machine mechanic; or for typewriter mechanic.

wire maker, eye; a wire drawer *q.v.* who, using a special die, makes wire of V-shaped section for use in making spectacle rims.
wire roller (reed making), *see* flat-roller.
twire welder; welds together lengths of wire during drawing process, using electric or acetylene hot lamp; *cf.* welder (2459).

268.—WIRE WEAVERS AND WIRE ROPE MAKERS.

barb wire maker, barb maker, barb spinner; attends one or more machines, according to type of barb wire being manufactured, in which previously galvanized wire is spun with barbs, and is then spooled, sets measurement gauge and feeds wire from drum through machine; fixes end of wire to rewinding drum; watches machine for proper working; replaces drums when empty or full; closes; a wire rope maker *q.v.* who specializes in operating a closing machine.
diamond mesh worker, *see* mattress maker, link.
gauze maker, wire; metal gauze maker; cloth weaver; at for weaver (245); winds thin wire iron spools on to warp beam; sets beam in machine and fixes warp wires through reeds; fits up shuttle and sets machine in motion by means of levers; watches machine for any faulty working.
layer, *see* rope maker.

matt screen maker; a wire gauze maker *q.v.* who makes wire gauze screen used in screening malt.
mattress maker, link; diamond mesh worker; assembles iron mesh-work and springs of combination and hospital beds; secures mesh work by link and spanner to frame and twists wire ends at edge through holes in frame with pliers.

mattress maker, spring; weaves wire spring mattress maker; spring cutters; secures wire mattress weavers, wire mattress worker; weaves in a machine, spring mattresses for bedsheets, from steel wire; sets, by hand, various gauges and feeds wire into machine from spools; may also fit wire mattresses to frames.
netter, wire netter, *see* wire netting maker.

rigger (wire rope); (Electricist distinct) a wire splicer *q.v.* who makes wire rope parts of steel, by splicing, fixing turnbuckles, etc.; *cf.* rigger (Dunedin district) (238).

rope maker, steel rope maker, wire rope maker, rope spinner; layer, steel rope strander, wire cable maker, wire rope layer, wire strander; fits bobbins in position on wire rope stranding machine and feeds ends of wire through guides; watches machine for proper working; also sets dies of closing machine through which wire rope is drawn to tighten up the strands; fixes end of rope to winding drum.
splicer, cable splicer; a splicer *q.v.* who joins cable ends by separating strands and then interlacing (and in some cases soldering) one strand with the corresponding strand, placed end to end with it.
splicer, wire rope splicer; joins two wire ropes or cables together by hand by opening or unravelling the strands and interweaving them; also splices eyes or turnbuckles into ends of rope; *cf.* rope splicer (326).

steel making maker; a wire weaver *q.v.* who weaves steel wire into mats either by hand or by machine.
steel rope strander, *see* rope maker.
weaver, cloth, *see* gauze maker, wire weaver, spring mattress; wire mattress weaver, *see* mattress maker, spring mattress.

weaver (wire), wire weaver; weaves wire into mesh or other forms, usually by machine, places bobbins of wire on spindles and feeds wire from

bobbins through guides in machine; sets gauges and changes gears of machine, as required, according to nature of mesh; watches machine for faulty working, and repairs broken wires.

winder, wire mattress, *see* mattress maker, spring.

wire, wire mattress selvage; wire selvage or edging for wire mattresses from steel wire; sets gauges and bobbins of wire in machine and watches for any faulty working.

wire cable maker, *see* rope maker.

wire netting maker; netter, wire netter; a wire weaver *q.v.* who operates and feeds machine which weaves wire netting.

wire rope layer, wire strander, *see* rope maker.

278.—OTHER SKILLED WORKERS.

alloy man (copper smelting); takes samples of copper during refining process and alloys them, i.e. melts them in a crucible with various metals, e.g. zinc, tin, to test suitability of copper for alloying purposes.

aluminum granulator; feeds molten aluminum into hopper of granulating machine where it solidifies; sets machine in motion, which crushes or cuts the metal into small granules (for explosive manufacture); fixes sieves of requisite fineness, through which granules are sifted into receivers or bins.
assembler (bedstead), *see* fitter, bedstead.

assembler (cutlery), *see* putter-together (cutlery).

assembler (shoes), *see* fitter, remount assembler (galvanized sheets); head sorter, inspector, inspector of sheets, look-over, pick-over, sorter; sorts out finished sheets to various sizes and gauges, for despatch to particular markets; rejects any defective sheets.

assessor (tin boxes); checker, examiner, looker, sorter, tin sorter; (i) sorts tin plates according to gauge, cleanliness and fitness of surface; (ii) inspects finished boxes, etc., and rejects any that are defective.

assessor (tinplate); inspector, sorter, tin sorter; examines sheets at one of several stages in tinplate manufacture, e.g. after cold rolling and annealing, when sheets with special blemishes or blisters are rejected, and sheets partly welded together are opened by hitting with a wooden mallet, or after picking, to reject sheets imperfectly cleaned of oxide, or after tinning to reject sheets not properly coated.

barrel maker (small arms); general term for any worker engaged in machining barrels for rifles, guns and pistols, including barrel fitter (200), barrel turner (200), barrel borer (200), barrel layer (238), rifler (209), barrel layer (238), barrel smoother (238), barrel borer (278) *q.v.*

betterer, *see* flattener (fish hooks).
beader, bearding machine man (fish hooks); feeds, by hand, metal rod into slot in bed of bearding machine, which cuts barbs, or "beards" on fish-hooks; controls cutting tool by hand lever; sometimes sets machine, otherwise set by machine tool setter (211) *q.v.*

bell-hanger; bangs finished bell or re-bangs renovated bell in position on bell or clock tower; adjusts trunnions and bearings, as required, by means of engineer's hand tools; may also fit and adjust bell-ringing ropes or mechanical bell striking apparatus; sometimes specifically designated, e.g. church bell hanger.
bell man, bell maker; furnace ganger (blast furnace); lowers materials into blast furnace from a

kind of funnel, called a bell; works levers to lift and drop bell; "digs" or measures depth of charge in furnace by dropping a rod, attached to hand lever, into furnace; sometimes done by charger *q.v.*; obsolete, *cf.* bousmann (189).

bench hand (wire works), *see* wire worker.

bender (hoof and shoe plates, dog iron); places out lengths of second steel rod in a bending machine, where they are bent into shape required for heel or toe tips, sometimes sets machine; sometimes specifically designated, e.g. dog iron bender, shoe tip bender.

bender, copper (generators, etc.); copper turner; bends and fuses base copper bar or strap for starters of large generators or motors, switch-board connections, etc., by hammering it over a jig former by hand; may sometimes file formed bar to shape, usually done by copper filer (235) *q.v.*

bender, fish hook bender, *see* bowser (fish hooks).
bender, iron; bends, by heating and hammering over die former or anvil, or by pressing or rolling in a machine, iron sheets, rods, tubes, bars or strips for iron fences, railings, etc.; commonly done by blacksmith (190) *q.v.*

bender, rail bender (metallic header pipe); inserts pipe or tube between turning wheels of pipe bending machine in the forming of bedstead rails, tubes, etc.; controls machine by hand lever and amount of bend against a mould or template; often done by pipe fitter (235) *q.v.*

bender, rim; wheel rim bender; feeds out lengths of rolled wheel rim into bending machine to bend it into circular shape for cycle or perambulator wheels.
bender, second (dog iron); a bender *q.v.* specializing in bending shaped dog irons in a roller machine to fit curve of dog from heel to toe.

bender, swirl; feeds metal rod into semi-circular machine, which bends and cuts it to form various kinds of swirls, e.g. gun or rifle swirls; watches machine for correct working; may set machine.

bender (tubs), tube bender; bends metal, usually flanged tubes to required shape either by heating in a large and bending by hand, if large and heavy, or, if small, by means of dies under hydraulic power or hand press; sometimes specifically designated, e.g. handle bar bender.

bender, wire (textile machinery), *see* wire worker (textile machinery).
bending machine attendant (text house, iron works); clamps sections of iron or steel rails, rods, etc., into a roller machine and bends sections under a descending roll actuated by a hand lever; passes bent section to test room superintendent for examination.

bend maker, *see* bender (tubs).
beveler (fishes); sawyer; feeds, operates and controls by levers, machine which bevels edges of steel strip preparatory to rolling, in lap welding process of tube manufacture.

blade gilder (swords); (i) gilds blades of swords either by applying gold leaf or by electro-gilding; (ii) hues and gilds blades of swords with mercurial gold, *cf.* gilder (282).
blank maker (screws), *see* bender (screws).

blast furnace band; general term for any worker employed about a blast furnace or cupola, including charger (279), feeder (279), cupola man (111), lip man, wheeler (279), *q.v.*
blast furnace potter (copper); wheels iron pots into position at base of copper blast furnace or cupola; replaces flow of slag or metal into pots by opening or closing plug; wheels full pots away and tips them on slag bank, if slag, or into moulds, if metal.

blooker (saw), see **hammerer (saw)**.
blower for burner (lead extraction); **blow** **man;** operates **blast** and **acetylene**, by a lever, the **blast** which is blown or drawn through revolving furnaces for calcining lead ore and otherwise attends to working of furnace.

blow lamp worker (shipbuilding); **closer,** **bents** with **blow lamp**, or **oxy-acetylene flame** and **acetylene**, plate seams, bars, etc., which require to be closed after plates, etc., have been placed in position; **blowers** heated metal with a hammer to close up gaps.

bluer (metal); prepares bath by melting together saltpetre and pyrites; dips steel articles in basket into kettle and maintains at constant temperature for few minutes; removes and washes in hot water, dips in oil and leaves to drain.

bluer (small arms); an oxidizer **g.p.** who heats barrels of pistols and certain guns in charcoal or a hot plate, or in an exhausted potash, until they take a blue colour, and then allows them to cool, washes in cold water, dips in oil and sets to drain.

bobbin and carriage band (lace); see **carriage and bobbin band**.
bowyer, fish hook bowyer, bowing machine man; bender, fish hook bender, rigger, fish hook rigger; sets, rods and operates small fly press which bends fish hooks and forms ringer at end; cf. **press worker (254)**.

brass chain maker; attends and feeds semi-automatic machine with brass wire or rod according to brass chain to be made, sometimes sets machine usually done by machine tool setter (211) g.v.

brass mould maker (dental machinery); takes up, i.e. cleans and polishes, rough brass casting of mould used for moulding teeth, in special milling machine; finishes by filing at bench.

brass worker; general term for any operative working in brass, usually, but not exclusively, a hand worker, includes all metal worker (brass) (221), church brass worker (221), brass finisher and turner (224), brass fitter (233), buffer (brass) (238), grinder (brass) (237), brass solderer (232), brass engraver (278) g.v.; sometimes specifically designated, e.g. camera brass worker.

bridge stocker (blast furnace); (Scott's Staff) feeds and instructs fillers as to rotation of charges, i.e. coke, "sue" or ore and limestone; also helps on loading bridge of boat and helps charger **g.v.** to fill furnace.
bright worker (needles); see **sorter (needles)**.

browner; self-fitter; prepares bath of distilled water, potassium permanganate and other articles, e.g. parts of small arms, cycles, in bath, washes and scrubs in running bath and sets on oven to dry quickly; dips in oil and leaves to drain; sometimes specifically designated, e.g. barrel browner, bayonet browner.

buckle tongue fitter and roller, buckle tongue; hoes cast as pressed buckle tongue to buckles, by hand or by stamping machine; usually also fits roller on buckle by bending on strip of metal with pliers or in special machine.

bulger (tubes), see **expander, tube**.

bundler (wire works); **galer;** makes up coils of wire or steel into bundles for transport; checks gauge and length of wire and labels accordingly.
bur examiner (dental instruments); makes a visual examination of bur or dental drills, after they have been machined, to ensure that sharp and cutting edges are to specification.

burner, drop burner (blast furnace), slag burner; roasts tap cinder from puddling or blast furnace to make bol-dog, a refractory slag for setting puddling furnace; assessor, thurmer (slag iron); fires kiln in which briquettes of iron ore dust and steel

scale are made for use in blast furnace, cf. waste burner (171).

cap maker (barren); cuts and shapes sheet steel; grooves and channels it, and bends it to shape by hammering over and round moulds and patterns; welds in place and closes it, thus making shell for lamp.

carriage and bobbin hand (lace); **bobbin and carriage hand; assemblers, fitters, finishers and trues up carriage and bobbins for use in lace-making machines, using small lathe and hand tools at bench.**

carriage springer (textile); fits springs on to rollers, of mule spinning machine, which control winding and twisting of yarn on machine, drilling, screwing and riveting with various hand tools.

caster, lead (not foundry); see **tapping man; cf. lead caster (foundry) (161).**

caster, printer's lead; type metal

caster, see mixer, metal (type-founding).

caster, tin; pours refined tin, in molten state, from ladle into mould where it cools into blocks or ingots.
caster, type caster, lead caster (type), **caster at machine; inner matrix, from which type or characters are cast, into steel mould; fits mould into machine with accurate hand adjustment; fills pot with molten type metal and regulates gas heating pot; watches temperature of metal, adding fat, if necessary, to give correct consistency, manipulates controlling levers of casting machine and examines with gauge, type as it is automatically delivered from nozzle; adjusts machine to ensure accurate working.**

caster driver (blast furnace); controls levers of gas casting machine, which is fitted with ladle, and revolves to tip contents into a series of moulds.
caulker (band), caulker (iron), band caulker, iron caulker; smooths off rivets with hand hammer; tightens up plate seams by forcing edges close together with caulking tool; may also drill hole in plate when necessary and inspect rods by turning screw-plunger apparatus; work sometimes done by riveter (253) g.v.

caulker (marine), machine caulker, pneumatic caulker; uses pneumatic or hydraulic hammer and caulking tool to smooth off rivets and tighten plates; sometimes specifically designated, e.g., boiler caulker.
caulker (pipes); **jointer, main jointer, pipe jointer (waterworks), pours molten lead, or other caulking material, into joints of pipes and runs it home with hammer and caulking chisel.**

charge putter up (steel); determines quantities and prepares charge for conversion or furnaces in steel works from specification prepared by chemist; usually done by superintendent of rolling shop.

charger, hydraulic (puddling furnace); operates, by levers, hydraulic gear for charging puddling furnace.

charger, hydraulic (rolling mill); **charger operator; controls valves of hydraulic gear for gripping rollers with tongs and pushing them through re-heating furnaces or for charging them into furnaces; often done by roller man (178) g.v. and gang.**

charge (puddling furnace); Stokes furnaces with coal and pigs in rap pug iron, scrap iron or steel billets, etc., as case may be, by hand, with shovel or by use of hoists; usually done by puddler or underhand (172) g.v.

charger (slag and slag wool), see **turnman (slag and slag wool).**
charger, charger driver (steel); controls various hand levers of "charger" or machine by means of which box loaded with charge is pushed into furnace in steel works

and inverted.
charger operator (rolling mill), see **charger, hydraulic (rolling mill).**

chaser (brass); executes design on brass work by cutting away parts of the surface to varying depths with hand chasing tools; sometimes specifically designated, e.g., coffin plate chaser, harness furniture chaser.

chaser (carriage building); coach engraver; a chaser (brass) g.v. who chases or engraves, by hand, special name plates or other decorative metal work for high class carriages or coaches.

chaser (general engineering); finishes cast metal work by removing seams and other irregularities with chisel and hammer.

chaser, hilt (sword); sword hilt chaser; hilt engraver; raises a design on sword guards or hilts with graver and chisel and hammer; is for chaser (brass), but may work in steel; sometimes also works in gold and silver—much lighter work.

chaser, lead, see modeller, lead.

checker; (1) checks finished work for accuracy and soundness of material, using rule, micrometer and gauges; where necessary, checks amount of piecework pay earned; (2) checker, sample (steel manufacturer); (3) checker, checks and records weights and quantities of material entering and leaving tube mills or departments of mills.

checker, gauge; checks accuracy of gauges used by examiners, by comparison with standard gauge or by measurement with micrometer.

checker, piecework; keeps record of output of metal workers on piecework, for purpose of calculating amount of pay earned; sometimes done by shop clerk (353) g.v.

checker, sample (steel manufacturer); checks and numbers samples of steel; keeps records of chemical analyses and of tests made.

chipper, chipper and scraper; a caulker g.v. who chips, usually with pneumatic tool, scrapes or cuts off excess metal until they are even and in line.

circle (textile machinery); circle pin filler, circle setter; builds up circular combs of textile combing machines by inserting and fixing steel comb pins in the circles (or cylinders), or sets in new pins of combs; cf. circle setter (226).

clammer (dies, seals, etc.), feeds and operates a clam or machine in which soft dies are impressed by hardened steel die for repetition purposes.
clammer, roller (roller engraving); raises and strikes metal (design in relief) on annealed steel roller from hardened steel die; places cylinder and die in machine and brings die to bear by control of levers; starts machine and watches proper working.

cleanser (musical instruments), see scraper.

closer, flyer slot; closes slot in arm of flyer for flyer spinning machines, after brass hammer has been inserted, using hammer and hand tools on bench.

closer (shipbuilding, etc.), see blow lamp worker.

closer (tube); closes joints of tubes, after drawing process, but before brazing process (if any), by bringing edges together with a special hammer and other hand tools.

copper strip worker, see drawer, copper strip.

copper tape worker, as for drawer, copper strip.

corrugator, sine corrugator (galvanized sheet); has charge of corrugating press and directs men employed about it; sets machine for size of corrugation required and adjusts pressure by means of screws; feeds sheets into it.

corrugator (other pressed ware), as for corrugator, zinc.
coilsetter, see brunner.

crapper (needles); turns over ends of hosiery machine needles, by feeding

them by hand into magazine of automatic cramping machine;
 crammer (wrought nails); feeds iron sheet, strip or wire at black heat into cramping machine to make wrought iron nails; runs machine in motion and controls it by levers; does not usually set dies and gauges.
 cross rolls man (lubes); manganonion, mangle, roller; guides with an iron bar, tubes, as they emerge from rolling process, between rollers of cross rolls; while the bars are straightened and rounded while still hot; adequate rollers by means of screws.

crystallizer (lead extraction); leader, leader (lead extraction); Pattison lead (lead extraction); wire up molten lead in large pot, in which Pattison process of desilverization is conducted, and as it cools, removes in perforated ladle, solid crystals of pure lead, which sink to bottom of pot; when critical temperature is reached, ladles remaining liquid into another pot, and by repeating process increases concentration of silver in lead.

cutter, bloom; bloom shearer, cutters, slab cutter, slab shear driver, slab shear operator; slings and clamps steel blooms or ingots in shearing machine, which divides them into suitable lengths for rolling; applies length gauge to ensure that correct lengths are being sheared.

cutter, ingot; slicer; slings and clamps steel ingots in a machine saw which cuts them into slabs for re-heating and rolling into wheels and tyres.

cutter, nail, see machine minder (nail).

cutter, paragon frame (umbrella); places strips of tempered grooved steel, out of which umbrella ribs are made, in a guillotine; sets various gauges and operates machine by hand levers, to cut steel into lengths.

cutter, rail, see hot bar man.

cutter (shipbuilding); a caulker (hand) g.v. who cuts apertures in ships' plates.

cutter, slab, see cutter, bloom.

cutter, stencil plate; cuts from sheet copper, zinc or brass, by hand with mallet and steel punches and chisels, stencils of lettering, designs, etc.; machine cut stencils are stamped out by press hand (254) g.v.

cutter-down (rolling mill), see cutter, bloom.

cutter-out, joint (steel manufacture); cuts through bolts with hammer and chisel, at joints round bottom of Bessemer converter; assists in removing bottom by means of a crane; may plaster bottom with ganister and take bottom into drying stove; usually done by bottom runner.

cutter-out, machine knoll; section cutter-out; cuts blanks for heavy shear blooms or machine blooms to size from thick section steel with hook saw of section cutter-out (254).

dandy roll maker, see mould maker, dandy roll.

desilverizer; separator, silverizer (lead extraction); general term for any worker who carry out operations in either Pattison or Parkes process of separation of silver from lead; includes crystallizer, slinger man, and lead re-heating turnman (171).

die caster, decanting machine operator; attends machine which casts into metal dies, various alloys of aluminium, antimony, etc., and metals of low melting point, is responsible for temperatures of melting pot and proper working of automatic or semi-automatic machine.

discher, discher (slag iron), see day-way worker.

doctor maker (textile); shapes, in metal, doctors (scrappers) used on textile printing machines to scrape colour from rollers; cuts metal in power shears and works upon it in

planing, grinding, glazing and drilling machine; fixes doctor between two thick plates of doctor holder and secures by riveting or with bolts and nuts.

drawer, copper strip; copper strip worker; feeds copper rod, etc., into rolling mill to make copper strip; feeds copper strip into tube drawing machine, in which it is drawn through die to make copper tube.

drawer, copper tape, or for drawer, copper strip.

drawer (puddling); draws out, with tongs, a pile of iron from heating furnace for re-working, e.g., rolling, may help to feed furnace, if coal fired, or to regulate gas valves; sometimes specifically designated according to article for which iron is being worked, e.g., chain drawer.

drawer, sample; sample catcher; takes small portions of molten steel from furnace during process of engraving; small ladle and tips into small mould, or "spoon," for test purposes; carries to sample passer g.v.; usually done by furnaceman (171) g.v. or by one of his helpers.

drawer (slab extraction); taper; taper roller (171) g.v. to draw out metallic zinc from clay containers with small tapping rabbie; takes off and replaces protrusions or nozzles, cleans out oxides and powdered zinc from them, by tapping on floor; skims and runs molten metal into moulds, using long-handled tool or skimmer.

dresser, axle; removes uneven surfaces of rough forged axle with hammer and chisel, may also use file, e.g., slider (238); often also acts as axle polisher (238) g.v.

dresser, ore (charge band, sine extraction); is in charge of workers on any of various screening, crushing, washing and flotation machines used for dressing, i.e., preparing for smelting, zinc ore (chests or calcines), adjuvants machines and watches proper working.

dresser, residue (zinc); washes residues, after it has been crushed between rollers to separate materials from dress, on washing table; regulates feed of crushed ore to table, also speed of table and supply of water by means of levers.

dresser, type dresser; letter finisher; type finisher; (1) cuts grooves at bottom of lines of type and sees that they are all true as to height and alignment and that faces are good; (2) in large works, where machinery has been introduced, feeds, operates and controls machines which break, smooth, set and groove cast type; picks out from line any type that is defective.

drill twister; twists, whilst hot, steel drills and bits for boring wood, brass, etc.; grips steel bar or rod in tongs or drivers from furnace; fixes it in grips of twisting machine; turns handle of machine to obtain desired amount of twist and, at same time, tempers wire by pouring on water from a kettle.

driver, arbor; fixes or drives steel arbors or shafts into centre of wooden rollers used in wringing machines; fixes arbor and roller in chucks of machine and controls machine by hand levers, so that roller and arbor are evenly forced together.

driver, pusher; controls levers of machine, pusher, which pushes ingots through a re-heating furnace prior to rolling.

driver, slab shear, see cutter, bloom.

dropman, gentry dropman (blast furnace); a gentryman g.v. operating a trap door or dropping platform over ironstone kiln.

dropper maker, drop pin maker (textile); makes detector wires for test motions on warping machine; cuts steel wire to required lengths, shapes it and drills hole for warp thread with hand tools and small presses and machines.

edge worker (scientific instruments, etc.); performs several operations, e.g., turning, drilling, tempering, polishing, of those scientific instruments that have sharp cutting edge, e.g., scalpels, knives, scissors.

electro-blast; electro-blast grider (screw); effects electrolytic deposition of brass on better types of finished screws, by dipping screws in basket into tank; maintains proper quantity and strength of solution in tank; adds anodes as required; switches electric current on and off, cf. electro plater (232).

engine stripper; dismantles an engine in preparation for cleaning, re-fitting or removal, usually done by engine fitter (210) g.v.

engraver, bell; an engraver (hand) g.v. who cuts designs and lettering on bell by means of hand tools.

engraver, coach, see chaser (carriage building).

engraver, copper (process engraving); touches up copper process plate with hand engraving tools, looking at work through a magnifying glass.

engraver (hand); chalks lettering or design on brass plates or other metal goods and cuts out design with hand tools, or gravers; sometimes specifically designated, e.g., brass engraver, hilt engraver; cf. chaser.

engraver, hilt, see chaser, hilt.

engraver (machine); engraving machine worker; uses machine engraving tool or pantograph engraving machine to cut inscriptions, designs, etc., on metal plate; inserts pattern into slide guide, traces arm upon it and controls cutting tool.

engraver (photogravure); retoucher; a copper engraver (process engraving) g.v. who improves richness and beauty of photogravure plate or cylinder by working on the surface with hand engraving tools.

engraving machine worker, see engraver (machine).

etcher (cutlery, saws, etc.); cleanses oil from blade and attaches transfer of brass lines to blade, etc.; applies varnish with brush to blade not covered by transfer; applies acid to bite through unprotecting parts of transfer into surface of metal, using dolly sticks, i.e., rag attached to wooden handle and dipped in acid; dips blade in water and thoroughly cleans away varnish and transfer with emery polish; sometimes specifically designated, e.g., cutlery etcher.

examiner; gauger inspector, slider; (1) examines engineering products at various stages of manufacture to detect faulty material or bad workmanship; makes visual examination and tests parts with gauge, when necessary, for accuracy; may also examine materials and accessories prior to manufacture; in some cases, e.g., gas and water taps, tests only finished article; sometimes specifically designated, e.g., bullet examiner, edge tool examiner, ring examiner (textile machinery), wheel disc examiner, (2) (tin boxes), see assayer (tin boxes).

examiner (chain testing house); tester (chain testing house); an examiner g.v. in charge of a testing house where chains are tested under tension, direct operation of test house labourers in fixing chains in testing machine, controls power levers and supervises reading of dials and record of test.

examiner (cycles); tester; (1) fixes cycle frame in testing frame and examines it visually to detect inequalities or weakness of frame; tests bearings, brakes, etc.; (2) fruster; tests track of wheels by running; takes up, if necessary, with spanner, etc.

examiner (files); tester; examines file for straightness; rings or sounds it, by striking on metal block; tests for

hardness and to detect any defective teeth by rubbing over piece of steel.
 Examiner, oil pad (railway); makes visual inspection of oil pads in axle lubrication system of engines; may rise in new cotton pads or report defects for oil pad (279).

Examiner, spring (axles), see tester, spring.

Examiner, stay; stay inspector; examines all parts before stay, i.e. various supporting rods or plates which strengthen boiler or condenser and prevent bulging or collapsing.
 Examiner (steel pens), see book-over (steel pens).

Examiner (wheels), see viewer (wheels).
 Examiner, wheel (railway wagon works); examines wheels and tests them by tapping with a hand hammer; decides, by sound given, whether they are in good condition.

Expander, tube expander; bulger; (i) clamps end of hot tube in vice and operates machine which expands end of hot tube or pipe by forcing in a die or mandrel, in preparation for jointing; (ii) expands cold tubes in similar manner by passing tube between rollers, mandrel being forced in, in preparation for high pressure steam or water injection.

Extractor (metal); feeds crushed ore or workshop sweepings into hopper of machine, in which metal is collected on poles of electro magnet; controls levers and switches of machine and watches for proper working.

Faller maker; any worker engaged in one or more operations of making or assembling parts or mechanism, e.g. faller wire, shaft rod, needles, guides, of faller motions of male spinning or other textile machines; includes faller finisher, faller setter.

Fun man (lead extraction); see blower via burner.

Getter (steel manufacture); repairs hearth of open hearth furnace as soon as tapped; rakes over bellows in hearth with long-handled metal rattle scraping out residual molten steel; then shovels in powdered dolomite with short or long-handled shovels to fill up depressions in hearth; rakes all smooth with rattle.

Fettler, tool; tool repairer; repairs tools by hand, see tool maker (265), by beating out points on an anvil, by riveting, welding, etc.

Filer, circle pin (textile machinery), see circle.

Filer, pin (textile machinery); inserts steel pins, riveting or otherwise fastening them into bars or beds of combs; sometimes specifically designated, e.g. circle pin filer, gill pin filer, buckle pin filer.

Filer, plug (steel); plug runner; blocks up pouring holes of furnace (Simons Martin process) with fire-clay plug after each "heat" is run; fresh plug into position ready for next "heat" often done by furnace-men's helper (279) q.v.

Filer, perspective; a pin filer q.v. inserting pins in buckle combs.

Finisher, axle box; axle bush finisher; removes irregularities from castings or more perfectly from forgings of axle boxes using hammer and chisel.

Finisher, cart hame (wood hames); punches holes with power press or punch in steel shell; rivets or brass on fittings, i.e. draw and top and bottom ends; after wood has been inserted into shell, finishes by buffing and polishing on bobbing and polishing wheels.

Finisher, circle; finishes off circle combs used in textile spinning or carding machines, i.e. adjusts wire teeth or pins, file smooth, burnishes and polishes them.

Finisher, coach spring; files edges of spring plates, where necessary, and bolts plates together.

Finisher, faller; file and generally finishes, in preparation for setting, "fallers" or wire contrivances by which textile spinning machinery is stepped when a thread breaks.

Finisher, fork; iron fork finisher; fork *four-ap; removes* *lash, i.e. rough edge or surface, from, and grinds* *toughly, shaped agricultural* *forks by hand filing or by emery grinding on glazers or endless bands, coated with powdered emery and glue, to make them bright and smooth,* *sharpens prong-ends and sometimes* *also file on wooden handles.*

Finisher, gill; as *for finisher, circle*, working on gill box and bars of combing and straightening machines.

Finisher, handle; as *for finisher, circle*, working on handle combs.

Finisher, letter (type), see dresser, type.

Finisher (musical instruments); polishes parts of musical instruments, before they are plated, by fixing in lathe driven by electric or other power and holding polishing mop against revolving part; may also put together parts of brass instruments, and make any necessary minor adjustments.

Finisher, reed finisher (textile reeds); (i) blades round top and bottom points of staves of reed with turned wire to keep wires apart and each pair of reeds close together; (ii) see straightener, wire (reed making).

Finisher, saw finisher, see hammer (saw); cf. back fixer (269).

Finisher, stay; stay finisher (textile machinery); stay maker, stay maker; assembles and builds up, metal parts of lathe or sley of loom, into which reed works at a bench and vice and makes any minor adjustments with file, etc.

Finisher, spade and shovel; shovel and spade finisher; spade and shovel handler; spade and shovel shaffer; turns shafts (hafts) of spades and shovels with a spokehorse to fit socket and fixes and rivets into sockets, with hand hammer.

Finisher, spanner; wrench finisher; finishes of drop forgings of spanners and wrenches or parts thereof by emery-buff grinding, lathe polishing or hand filing; fits together parts by riveting or with screws.

Finisher, spring hook; files, fits and polishes, on bobbing wheel, drop forgings of spring hooks for use in harness gear.

Finisher, type, see dresser, type.

Finisher, wrench, see finisher, spanner.

Firer and dogger (rodding furnace); a firer (rodding) (279) q.v. who also acts as dogger (279) q.v.

Fitter; general term for workers assembling and fitting together metal articles from component parts or erecting simple metal apparatus in its place; usually works at bench with vice, screwdriver, file, hammer and other hand tools; in some cases may use small riveting machine to fixate parts together; or may weld frames joints; is usually a specialist in fitting together one kind of article and rarely has to alter or add; parts to say extent: cf. fitter (210); often specifically designated, e.g. anchor fitter, base frame fitter, cement fitter, chandelier fitter, cot fitter, grip fitter, iron cabinet fitter, mattress fitter, metal cement fitter, musical bell fitter, saddle fitter, speedometer fitter, tank fitter.

Fitter, bath; erects baths in bath-rooms, etc.; fixes base to floor with taps, etc.; connects up with water supply and waste pipe; usually done by plumber (265) q.v.

Fitter, bedstead; assembler, fitter-up, maker-up, putter-together; fits together parts of metallic bedsteads, adjusting them where necessary and preparing for despatch; cf. rail fitter (210) q.v.

Fitter, edge tool; tool fitter; fits together finished parts of edge tools, sometimes by hand riveting; adjusts parts, where necessary, by hand filing; reamering, etc.; cf. tool fitter (211).

Fitter, gate (iron); iron gate fitter; bends iron rods or bars to shape and fits together with necessary cast parts, to form iron gates; finishes off by filing with hand file; often also makes iron hurdles, palisades, fencing, etc., frequently done by blacksmith (190) q.v.

Fitter, gate and railings (iron); erects iron railings in position where required; cuts iron with hack saw; cuts sockets in stone, etc.; fills in joints with molten lead; erects gate standards in same way and hangs gates.

Fitter, grindstone; inserts metal spindle in centre hole of grindstone and clamps steel side plates with bolts and nuts on to spindle so that plates fit tightly against grindstone; sets spindle in bearings and adapts side plates with bearings till stone spins true; may also wedge spindle into stand with wooden and metal wedges and set fast by pouring in molten lead.

Fitter, hame; hame maker; welds on D piece, draft and top and bottom eyes to hame, forged from mild steel by house forger (245) q.v.; finishes with file and buffing wheel.

Fitter (house lead books); rivets metal fittings to loose leaf ledger covers, etc., under direction of bookbinder (332) q.v.; usually done by bookbinder as part of ledger binding work.

Fitter, optical; optician's fitter, see frame maker, optical.

Fitter, palisade, as *for fitter, gate and railings*.

Fitter, plumber's; a plumber's mate (238) q.v. who is experienced in hot water fitting (see hot water fitter, 240), but who is not fully skilled as a plumber (232).

Fitter, rail (bedsteads); roller; cuts with hack saw or power-driven circular saw, drills and fits together parts of metal bedsteads; a frame; surveys joints and together with oxy-acetylene apparatus, screws and assembles fittings of bedstead rails; may also brace certain parts of brass bedsteads.

Fitter, range fitter, stove fitter; assembler (stove), fitter up; assembles parts of stoves, grates and ranges and fits them together by drilling and filing where necessary; taps and drives screws.

Fitter, rough (bedstead); a bedstead fitter q.v. who examines component parts of metal bedsteads; drills necessary joints and performs other finishing operations; roughly fits bedstead together before it is passed to joiner's department.

Fitter, sewers, see putter-together, sewers.

Fitter, scythe; cuts patent back to scythe in power shears, files to fit; drills pins in back and scythe in drilling machine; rivets back into position with hand hammer.

Fitter, spur buckle; spur buckle; fits rowels, knobs, chains, rings and chapes to spurs, hammering, riveting, filing, bracing, where necessary.

Fitter-up (bedstead), see fitter, bedstead.

Fitter-up (stoves, etc.), see fitter, range.

Flat spring maker; passes strips of steel under head of press which forms small flat springs to required shape; may bend other small flat springs to shape round a former by hitting with a hammer.

Flattener (shab blocks); flattener; flattens reverse ends of shab blocks with hammer on hand anvil or in power press.

Flawyer worker (dog iron); disker, diskerer; performs second shaping operation on dog iron; places partially shaped iron on bed plate against two rollers and starts machine by hand lever, so that iron passes between forming rolls.

Fluer, see slinger (mine extraction).

flyer balancer; adjusts flyers (earn twisting and reving mechanism) of spinning machines to ensure that both arms are balanced and of equal weight; places flyer on revolving spindle and taps with hammer as it revolves; also bends arm with pliers and flies arms, as necessary, to get correct balance.

flyer maker (textile machinery); **fly maker**; assembles and fits together component parts of flyers and finishes whole article, using file, drill, screw-driver and other hand tools at a bench; cf. **flyer maker** (190).

flyer man, flyer mender; a maintenance man in flax and hemp mill, who repairs spinning frame flyers; pulls out or unsolders old eye at end of flyer and inserts and solders in new eye which is formed by bending brass wire.

flyer weigher; weighs, on balance, each flyer several times during process of making and file it, if necessary, to ensure it is exactly of required weight.

fly maker, see **flyer maker** (textile machinery).

forger (screws), see **header** (screws).

fork tractor-up (agricultural), see **fisher**, fork.

fork maker, iron (textile machinery); **welt fork maker**; assembles, fits together and finishes with file, etc. parts of mechanism which stops loom if welt thread breaks or gets slack.

former, copper, see **bender, copper** (generators, etc.).

founder (copper smelting), see **lador** (copper).

founder (iron), see **type founder**.

frame maker, eye, see **frame maker**, spectacle.

frame maker, hood; **perambulator hood frame maker**; **frame smith**, **perambulator frame smith**; a perambulator hood smith, i.e., who bends light steel rod, round or flat, round patterns, for hood frames of perambulators, etc.; fits ends to blaise pins.

frame maker, optical; **optical fitter**, **optician's fitter**; a lens maker (322) q.v. or a spectacle frame maker q.v., who makes any metal mounting or frame for optical glasses.

frame maker, spectacle; **eye frame maker**; cuts off lengths of certain steel or rolled gold wire, adjusts them accurately to shape and sizes and solders them together, by silver soldering; screws parts together and trues them in readiness for polishing and glazing.

frame maker, wire; a wire worker q.v. who makes wire frames by cutting, bending and joining lengths of wire; joins by soldering in case of single strands or by plaiting in or twisting one in case of twisted wire.

frame smith, **perambulator frame smith**, see **frame maker, hood**.

furmanman (slag and slag wool); **charger** (slag and slag wool); stokes cupola, charges it with slag by shovelling in broken lumps and watches making; reads pyrometers and advises blower (279) q.v. when to adjust steam.

gandyman (blast furnace); stands on gantry or platform at top of ironstone kiln and superintends calcining of ironstone; feeds small coal with shovel into kiln, using judgment to maintain kiln at proper heat, cf. **gandyman** (380).

gauger; (i) see **examiner**; (ii) see **tester**; sometimes specifically designated, e.g. friction tube gauger, spindle gauger, spring gauger (nicks), strip steel gauger (pens).

gauger, furnace (blast furnace), see **bell man**.

gauger, plate mill (rolling mill); inspects and measures thickness of iron and steel sheets and plates, with standard gauges, as they pass on rolling table between passes through rolling mills.

gauger, tin bar; gauges, weighs and checks finished tin bars or ingots.

gauger, tyre (rolling mill); checks thickness and diameter of steel tyre either hot, at tyre mill, or cold after turning.

gear man (rolling mill), **gear manipulator**; moves levers controlling apparatus which turns hot iron or steel bar or shaft into position suitable for rolling.

getter-up (cutlery); prepares sets of components of material and appoints quantities for cutlery (228) q.v.

gig maker (textile machinery); assembles and builds up gigs or teams, made in cylindrical form and covered or studded with wire teeth or fibrous material, used in teasing machinery to raise a nap on woollen cloth.

gilder (screws), see **electro-brasser**.

gill bar maker (textile machinery); prepares iron bars or flats for gill boxes, i.e., base surface on which gill combs or steel pins are fixed, by shaping them in planing or shaping machines.

gill stock maker; general term covering workers engaged in making gill stocks, including **grinder** (200) **gill pin setter** q.v.

grip (iron and steel); **pig selector**; classifies pig iron according to grade or quality; sometimes done by foreman of pig litters or stockers.

gripper (cutlery); nuts wooden grip on bayonet; fixes steel with screws or rivets and smooths and polishes grip when it is mounted.

guarder (fork); puts on guard of carving forks, fits and files and pins it to forks, with rivet and hammer.

guide maker (textile machinery); feeds with wire from spool and controls machine which makes metal guides for guiding yarn in textile machinery.

gun inlayer; cuts recesses in surface of gun or pistol barrel with hammer and chisel; inlays brass, copper, silver or gold in fancy design, by hammering into recess.

gun wire winder; sets, feeds and operates lathe which winds wire from bobbins round barrels of wire-wound guns.

hackle maker (textile machinery); general term for any workman seeking hackle combs used in textile machines, including **driller** (200), **hackle pin setter** q.v.

hackle attendant, **hackle pin man**; a setter q.v. who sets and repairs hackles.

hama maker (bamboo furniture), see **fitter**, hama.

hammer, saw hammer; **blocker**, **finisher** (iron), see **finisher**, saw smith, smith; (i) flattens saw blades, after hardening and before grinding, by placing on flat steel table or anvil and striking any curved part with hammer, (ii) receives back saw for light smithing and general adjustment after glazing; cf. **saw doctor**, **hammerman** (tubeless manufacture); trues cigarette machine knives with hammer, by hand, and supervises sharpening performed by grinder (237) q.v.

header (bolts, rivets); **header-up**, **header machine** (saw); feeds and operates an Oliver hammer to put heads on wrought nails.

header, pin (artificial teeth), see **pin man** (artificial teeth).

header (screws); **blast maker**, **forgier** (screws); passes metal strip by hand into semi-automatic machine which cuts screws to required length and forms their heads; watches machine for any faulty work.

header-up, **header machine man**, see **header** (bolts, rivets), sometimes specifically designated, e.g., **bolt**

header machine man, **rivet header machine man**.

belver (tools); fixes helve or handle into heads of hammers, axes, choppers, axes, etc., by cutting handles to fit eye of tool and driving in metal or hard wood wedge.

hilt embosser, **sword hilt embosser**; makes design of sword hilt with hammer and punch; cf. **embosser** (254).

hilt piercer (sawed); pierces designs on sword guard with small fret saw.

hinge maker; assembles parts of hinges by fitting and planing, clinching and burring over joint pins; may be done by hand with assistance of machine tools, or entirely on automatic machines.

hook maker, Blake; **hoot hook maker**; see **needle maker**, hook.

hook maker, bonnas; **embroidery hook maker**; a needle maker q.v. making, by hand, embroidery needles, which are hooked and have screwed shanks.

hot air man (blast furnace), **hot blast man**; controls valve to regulate passage of hot air to tuyeres of blast furnace; sometimes done by stove minder (171) q.v.

hot saw man, **hot saw worker**, **hot sawyer**; tool cutter, wall sawer, and surger; operates and controls circular saw which saws hot rails, etc., to required size, after they leave finishing rolls; cf. **cold sawyer** (279).

ingot maker; general term for any man who makes or casts metal ingots, including mould setter (steel), pitman, trimmer q.v.

inlay machinist (small arms); an engraver (machine) q.v. who recesses design for inlaying purposes.

inspector, see **examiner**; sometimes specifically designated, e.g. **gun inspector**, **bench inspector** (rolling mill), **fish plate inspector**, **shop inspector**, **staple inspector** (bolts).

inspector, inspector of sheets (galvanized sheets); term rarely used; see **assessor** (galvanized sheets).

inspector (iron foundry), see **passer** (foundry).

inspector, sheet mill, see **assessor** (tinplate).

inspector (tinplate), see **assessor** (tinplate).

inspector (tools); examines tools at various stages of manufacture and when completed, for faulty material or workmanship or other imperfections and tests accuracy of precision tools with limit gauges.

inspector (tubal), see **viewer** (tubal).

inspector in field (rolling mill); makes final inspection before despatch of materials from works, where not done by customer's representative.

iron worker; general term covering various workers engaged in manufacture of iron, including **puddler** (172), **bar roller** (178) q.v., cf. **iron worker** (constructional iron) (236).

joiner, gun wire; joins together, by scarfing, drilling, riveting, soldering or brazing, ends of successive lengths of wire used for winding round barrels of wire wound guns.

joiner, hydraulic; a caulker (pipes) q.v. making waterproof joints in pipes, etc., of hydraulic machinery.

joiner, main joiner, **pipe joiner** (waterworks and hydraulic power), see **caulker** (pipes).

justifier (typefoundry), see **matrix maker** (typefoundry).

karser (typefoundry); cuts away with hand tool body or shank of such type as is faced with overhanging letters, to enable them to lie close to letters on either side.

lace carriage maker; assembles parts, which have been blanked out of sheet metal, of carriage used to coat bobbins in lace machines; fits them together; finishes them and trues them up.

ladar, ladler (copper); fowder (copper smelting); ladles molten metal from refining furnace and pours it into moulds, using either small ladles (from 25 to 40 lbs.) or large ladles carried on bogies, which may hold several hundredweight.

lader, ladler (lead extraction); see crystallizer

ladle lining; patches and, when necessary, re-lines ladles into which molten metal from furnaces is run in steel manufacture; when patching, duties as for ladle dander (279), (refining, or extensive repairs, allows ladle to cool and removes it, builds a wall of fire brick round entire inside; makes bottom lining by tamping down moist refractory clay, covers sides with fire clay and runs it into all cavities to form a smooth surface; sometimes conveys a gas tube to ladle and connects with gas flame; three gas and so dries ladle; alternately, dries ladle by lighting a fire inside it; is usually a skilled bricklayer (363) g.v., but also knows properties of various refractories, especially their behaviour under high temperatures.

latches (needles); fits latches to hoisting handles; inserts latch in slot of handle and hinges with pin, which is screwed or riveted fast; adjusts latch for easy working.

lead caster (printer's); ladles out from melting pot, molten lead, mixed by metal mixer g.v., and pours in ingot moulds for use in type casting machine, stereotyping, etc.; sometimes done by metal mixer; *see* *caster* (188).

lead pipe maker, lead pipe press man; lead press driver; attends and feeds press in which lead pipes are made; fits die into ram and runs into container of pipe press; molts lead in large pot and stokes fire or regulates gas under pot; controls lever of mechanical worm which allows molten lead to run down trough into container of pipe press; molts lead to cool to point of solidification and then applies hydraulic pressure by turning wheel; directs winding of lead pipe as it emerges from press on to receiving drum.

lead press driver, *see* lead pipe maker.

lead squirter (cartridge); attends hydraulic press which squirts molten lead through small hole in die to form lead rod for bullet cores; feeds lead ingots into large melting pot over furnace and taps off molten lead through connecting trough to container of press, allows lead to cool to certain temperature and then gives signal to valve man (279) g.v. to start press.

letter founder, *see* typesetter.

leveller, plate (boilers and tanks, rolling stock); leveller and straightener (rolling stock); levelling plate (boilers and tanks); hammers out and straightens on levelling block or anvil, by hand, light metal plates or sheets used in coach body making, tank or boiler making.

leveller (saw); (1) rolls, flattens and straightens in machine, steel plates from which saws are made; (2) pommel, plate setter; straightens or planishes plate for making saws, under steam hammer, or by hand on anvil.

liner (shipbuilding), *see* pecker (shipbuilding).

ling maker, linga maker (textile); shapes round wire or lead to be used for lingoes, weights attached to each harness coupling to keep it taut; flattens and punches hole in one end to allow lower loop of loom harness coupling to pass through.

lip man (lead extraction); taps crude lead from lip of blast furnace into cast iron pans, by opening hole in clay plug with iron bar, may then ladle by hand into moulds; usually done by furnaceman (171) g.v.

looker (tin boxes), *see* assembler (tin boxes).

looker-over (galvanized sheet), *see* assembler (galvanized sheet).

looker-over (steel pens); examiner (steel pens); examines steel pens after a process has been completed, to detect faulty nibs, which are thrown out.

machine minder (nails, nail machine minder; nail cutter, nail maker); receives roughly forged machine tool which he grinds and sharpens, and sets it in nail-making machine, has charge of a number of machines (from 12 to 15), supervises working of machines, regrinds tools and resets them, as required; also feeds machines with sheet iron or iron wire, according to type of nail made, is assisted in feeding of machines by nail machine feeder (279) g.v.; may help to repair machine when necessary; sometimes specifically designated, e.g., close nail maker; *see* nail maker (stamped) (254), nail machine minder (254).

machinist (reed making), *see* reed maker.

maker-up (bras spinning, etc.); refers together (boomer); assembles and puts together spun or towed parts, to form finished articles, at a bench with hand tools; in doing so, may perform some wiring, soldering or brazing.

maker-up (metallic bedsteads), *see* fitter, bedstead.

maker-up (pressed and stamped work); putter - together (pressed work); general term for worker who makes up or assembles parts of any article which have been prepared by machines, roll or stamp work, at bench, using hand tools; works in some cases, solder joints or rivets parts together with hand hammer.

mangle man, mangle (tubes), *see* screw rolls man.

mangle operator, *see* straightener, plate.

mark (files); applies firm's name or trade mark by drop stamp or by hand with hammer and die.

marker-out (iron fencing); measures and marks out with chalk, according to blue print or specification, iron bars, etc., for casting, drilling, etc., in making of sections of iron fencing.

matrix maker (typesetting); putter; (1) sinks matrix of type character by hand hammering punch (engraved by punch engraver (230) g.v.) into soft bar of copper or brass alloy; (2) matrix presser, matrix stamper; inserts punch in hand-manipulated press and screws down punch into bar; (3) suspends punch in glass box in electrolytic bath; removes matrix, in form of metal skin, from surface of punch, fills it with backing metal and makes up bar.

matrix presser, matrix stamper, *see* matrix maker.

measurer (rolling mill); measures or checks length or other dimensions of rails, rods, sheets, etc.; in sheet mill, done by roller (178) g.v.

measurer, steel; takes measurements of steel pipes, angles, channels, etc., produced in steel works, and checks against specifications.

mender (iron tank); repairs iron tanks by cutting metal away round hole; cuts fresh patch; drills holes round edges of hole and plate and rivets patch in place.

metal splitter (tubes); sets gauges in metal shears and feeds metal sheets into machine to be cut into strips of required width.

metal smith (gas meters); assembles and unites together parts of wet gas meter drums.

mill man, miscal millman (Mond process); shovels ore into ball crusher machine; controls levers of

machine and watches steady discharge of powdered ore on to conveyor.

mixer, Bessemer weigher's; mixes various kinds of scrap metal preparatory to passing it forward to weigher (279) g.v.; usually done by metal mixer (steel) g.v.

mixer, metal mixer (steel); is in charge of metal mixer (a tilting furnace holding up to 400 tons of metal) and superintends workers attached thereto, tipping in molten metal, etc.; sometimes also operates lever, which tilts mixer and pours steel into ladles; *see* teemer at mixer.

mixer, metal (typesetting); putter's lead cutter, putter's lead maker, type metal sorter; melts metals forming type metal, e.g. lead, antimony and tin, in pan; mixes them together and casts into bars, suitable for handling by typefounders.

mixer, nickel; roughly weighs out quantities of crushed ore, silica sulphur and fines and shovels into hopper of mixing machine; shovels mixture into barrows for conveyance to furnace ready for calcining in preparation of matte; obsolescent.

mixer, ore (copper extraction); weighs and mixes various copper ores in correct proportions and shovels into barrows for charging into furnaces or cupolas; obsolescent.

modeller, model maker; (1) makes model in wax or plaster of Paris, casts principal model, usually in brass; finishes model and chases with hand tools; passes model to pattern-makers to serve as standard, usually makes and repairs his own tools, may also do the necessary preliminary drawing; (2) makes small scale models of ships, engines, machines, etc.; is often a pattern-maker (189) g.v.

modeller, lead; (1) lead chaser; cuts, from block or sheet lead, models and designs with rounded tools and chasers; (2) pattern maker (doves and grates); makes lead or pewter patterns of stores and ranges; cuts sheet and block lead to shape of various parts and with grooving and repoussé tools cuts designs and lettering, smooths and finishes each model or pattern ready for matrix maker (189) g.v. mould coverer (cardboard making); covers moulds or rolls, which are used in wet end of board machine and pressing machine, with fine copper mesh and stitches mesh on with copper wire.

mould maker, dandy roll; dandy roll maker; makes up a dandy roll (part of a paper making machine) by soldering wire mesh to metal rings fitted to a spindle; works fine plate wire into suitable design to form watermarks in paper, by weaving, bending and plaiting, and solders his work under cover of dandy roll.

mould man (glass); assembles and fits together cast parts of cast-iron moulds, used in blowing bottles or in pressing flat glass; cuts designs, trade marks, etc., on moulds, sometimes done by fitter (201) g.v.

mould man (steel); moulds man; shuffles sand; pours molten aluminium or other material into mould while molten steel is being poured, to prevent it boiling; screws cap (an iron plate) on top of mould after pouring; sometimes sprays cap with water to hasten cooling and, when steel has partially cooled, removes cap and knocks out ingot; usually done by pit man or mould setter g.v. or by pitman's helper (279) g.v.

mould tier, *see* setter, mould (typesetting).

mounter (boilers and tanks); fits various cocks, fittings or mountings to boilers or engines; drills holes for bolts and screws, makes gasket joint with asbestos packing and screws bolts up tightly.

mounter, dagger shaft; attaches steel or brass parts, tips, etc., to leather case, by riveting and use of hand press.

mounter, kettle (bottle-ware); assembles and rivets handles on kettles, either by hand riveting or by means of power-driven vibrating hammer.

mounter, pillar mounter (metallic bedsteads); sets and pins various cast, spun or pressed embellishments or mounts on to pillars or other parts of metal bedstead, using vice, drill and hand tools at bench.

mounter (saddlery, harness); mounts nickel, brass and silver fittings and bands on whips, lung reins, etc., employing resin and plaster of Paris as cement, and hand riveting where necessary; sometimes specifically designated, e.g. whip mounter.

mounter, scabbard; fits various ornamental fittings on scabbards of swords, daggers, bayonets, etc., by filing and riveting; may also make and fit mounts of sheet brass and attach steel parts, tips, etc., to leather cases.

mounter, wheel and axle; wheel presser; mounts wheels of railway vehicles on axles or dismounts them by hydraulic press, using wheel and axle in chair and pushes into position in hydraulic press; controls levers and valves of press and watches pressure gauge or hydraulic graph.

naill maker, see machine minder (naill).

needle maker; general term for workmen employed in any process of making needles, including needle stamper (254), eye stamper (254), eye (256), eye filer (283), pointer (needle) (287) *q.v.*; sometimes specifically designated, e.g. bleacher's needle maker, holder needle maker, and snapper's needle maker.

needle maker, boot; Blake hook maker, boot hook maker; (i) makes throughout, needles for leather closing and Blake hooks; (ii) general term for persons engaged in various stamping processes of making boot needles when work is sectioned, including pointer (287) *q.v.*

needle maker, machine; sets up, with accurate adjustment, various automatic machines which punch and eye needle heads; may also feed machines with drums of steel wire or direct machine minders.

nickel cupola man; nickel refiner; general term for any workman engaged in charging, tapping, etc., cupola in which nickel is reduced, including nickel cupola charger (279), charger's helper (nickel) (279) *q.v.*

nickel cupola potman; guides pot or ladle (suspended by crane) to tapping hole of cupola when nickel or slag is to be tapped; when pot is filled, supervises removal of pot and lifts it to pour nickel into steel moulds.

nickel tap room man; operates plant for dissolving by hydrochloric acid and precipitating nickel oxide from material, after reducing process.

nipper, see wheel lace.

nozzler (tubes), see tapper (tubes).

ornamentor (metallic bedsteads); ornaments japanned metal bedsteads with metal or pressed embellishments by transfer (279), also by painting gold and coloured lines with a fine brush, oxidiser (metal); heats and immerses metal articles in acid baths to oxidise surface of metal; dries off acid in saw dust and applies lacquer with a brush or by dipping to give bright finish, if required, e.g. however, blue.

packer, asbestos; inserts, with various steel tools, asbestos packing into fittings on steam plant required to be steam tight, e.g., blow-off cocks, water gauge cocks, engine glands, etc.

packer, gland; inserts, with various tools, metallic, rubber, hemp, leather or asbestos packing into glands or stuffing boxes of steam engines, pumps, etc., through which moving parts reciprocate to prevent leakage of steam, water or compressed air; sometimes specifically designated, e.g. railway engine packer, hydraulic packer.

packer, matrix; machines two sides of matrix to be used in type setting to width of type to be cast; makes up slabs with packing pieces, riveting whole together to form complete matrix.

packer (shipbuilding), ship's packer and liner; liner, slipper; adjusts in position or puts plates, beams, frames, etc., on ship's structure to ensure fairness and to obtain close work, in preparation for riveting; fits taper and parallel slips or liners, where necessary, to fill in spaces between plates, frames, etc. and bolts temporarily in position to prevent drooping; often does his plates (222) or riveters (266), or their apprentices (266), or by iron caulking *q.v.*

painter, blotch painter (roller engraving); paints out with brush and acid resisting paint, portions of roller surface not to be etched.

pan man (copper extraction), see shot cooperator.

para runner (pig iron); under direction of blast furnace keeper (171) *q.v.*, brings up into position (usually by means of locomotive) large ladle mounted on wheels when ladle is filled with molten metal, tapped from furnace, runs ladle on to weighbridge for gross weight to be taken by weighman (279) *q.v.*

parer, edge tool; pares off or trims down cutting edge of tools, either by filing them while the tool is held in a vice or by milling or grinding; cf. parer (290).

parser (rolling mill); sets gauge on mechanical abutment and, starting lead rollers, places sheets of metal to pass away edges, operating sheets usually by foot lever.

passer (ironfoundry), castings passer; inspector (ironfoundry), viewer of castings; makes visual inspection of, and tests by tapping with hammer, castings for blow-holes or other faults, such as curvature, irregularities in pipes, excrencences of metals, or scale, and rejects those which are too bad for use.

passer, sample (steel manufacture); is responsible for deciding, on results of chemical and physical tests and from general appearance of charge, when conversion process is complete; then gives order for tapping and pouring potman, metal potman; maker; (i) makes moulds (patterners) of aluminium, cast iron, etc., for use of moulder (180) *q.v.* in forming sand moulds; casts patterns from a master mould of wood, pattern of Paris clay, etc., see coster (183); finishes pattern with hand and machine tools according to dimensional drawings. (ii) (stoves, grates), see modeller, lead.

patition hand (lead extraction), see crystalliser.

pedal feet maker (pinna); makes piano pedals, by hand or stamping machine, from brass strip; may also assemble stamped parts and rivet in riveting machine.

peeler (puddling furnace); places piles, or pieces of wrought iron to be welded into bars, on a peel, a tool for charging piles into reheating furnace of finishing mill of wrought iron or puddling works; sometimes designated by underhand (172) *q.v.*

perambulator cold smith, perambulator smith; bends cold steel or iron to form springs, parts of undercarriages of perambulators, etc.; may use vice, bench and hand tools for bending by hand; bends to given

specification or according to template; cf. perambulator fire smith (193).

picker (needles); examines needles, which are spread out on a level stone and picks out, for hammer straightener *q.v.* any that are bent; picketst, see asseter (galvanised sheets).

picker's assistant (galvanised sheet); receives sheets from feeder (279) or tanker (284) *q.v.*; sorts out defective sheets and returns them to picker (279) for further treatment; sets aside faulty sheets.

pig selector, see grader.

plier (wire works), see bandler.

pin maker; sets up pin-making machines, inserts dies, and is responsible for their running and the quality of work done; may sometimes make dies, see die sinker (290).

pin maker (artificial teeth); pin feeder; feeds wire from spool through dies in a machine; sets gauges and controls levers of machine which cuts pins to length and heads or double-ends them.

pin maker (piano); cuts steel rod with hack or machine saw, in making wreck pins for pianos; turns it in lathe and shapes in shaping machine; drills hole and finishes with file.

pistol inlayer, or for gun inlayer.

pitman (steel); general term for workers around casting pits, where ingots in a machine; sets gauges and moulds metal *q.v.*; also assists in pouring molten metal into moulds, allowing ingots when cool.

pitman, valve (steel manufacture); assists valve man *q.v.*; attends to gas valves underneath steel melting furnaces.

planisher (saw), see leveler (saw).

plate mangle, see straightener, plate.

plater, close (carriages, harness, etc.); brass plater, harness plater; covers ornamental and bright metal parts of carriages, harness, handles, etc., with close coat of silver or nickel foil; cuts foil to shape with shears, then surface of metal part to be covered by dipping in molten tin, places foil over tinned surface and applies hot soldering iron to cause it to adhere; trims and finishes with file.

plate, levelling (boilers and tanks), see leveler, plate (boilers and tanks rolling stock).

plater, saddle tree; saddle tree riveter; attaches metal plates to saddle trees to strengthen them; drills necessary holes and fastens by hand riveting.

plate strengthener, see straightener, plate.

platform man (steel), see mould man (steel).

pointer, set; forges nail pointers; shapes or forges point on wrought iron nails by machine or Oliver hammer, while cold.

pourer, see teemer, ladle.

printer's lead maker, see mixer, metal (typefoundry).

prover (gun fittings); tests finished articles, such as gun or water tape, with pressure gauge or compressed air, to detect leakages, and indicates, by mark, that they have been tested.

prover, gas meter; meter prover, see tester, meter.

prover (tubes), see tester, tube.

puncher, punching machine; sets and supervises working of punching machine for making holes in plates used in boilermaking, shipbuilding, when more expensive drilling is unnecessary; aligns plate on to bed of machine, directs punching machine worker (279) or assistant in operation of punch, and changes position of plate as each hole is punched as marked.

putter-together (bedsteads), see fitter, bedstead.

putter-together (brass ware, pressed metal), see maker-up (brass spinning, pressed and stamped ware).

putter-together (cutlery); *assembleur, work board hand*; general term for workmen who put parts together, including laymen, setter, cutter (229), drill buffer (225), grillet-up, *g.*.

putter-together, scissors putter-together; *scissors fitter*; assembles blades of scissors; finishes them with buff and emery wheel and, after fitting and beveling slightly, divides or screws in fulcrum; may also punch hole for rivet in each blade.

radiator man (motor car); a tinmith (264) *g.*, or a coopersmith (221) *g.*, or a sheet metal worker (264) *g.* who assembles and fits or repairs component parts to make up radiator; may also assemble repairs.

radiator man (textile); a taylor *g.* who immerses radiator in water bath and tests with compressed air.

roller (metallic bedsteads), see fitter, rail.

roll answer, roll sawyer, see hot saw man.

runner, bottom (Bessemer steel); runs into furnace with long iron running tool and takes refractory material, *e.g.*, dolomite or ganister, to form lining or "plug" at bottom of Bessemer converter in furnace.

runner, ear (Bessemer steel); (i) prepares a surface or bed on ear, on which mould is carried away on rails when teeming ladle, in refractory material into space provided to accommodate mould; (ii) operates hydraulic ram which moves mould cars under ladle.

runner, joint (steel manufacture); runs up joint between movable bottom of converter in bottom of Bessemer converter, by packing in refractory material with long-handled ramming tool; usually done by bottom runner *g.*.

runner, lead (steel manufacture); a rough metal block which moulds to contain feeding lead in ladle, i.e., temporary extension of mould to contain molten metal which runs down to mould proper as metal contracts (this prevents formation of pipe or cavities in spot when it cools); *cf.* moulder (184).

runner, plug (steel), see filler, plug.

runner, recrosser; *recrosser*, by hand, with saw or by machine, in setting fag-ends, etc., to give clearance for cutting tools, etc.

reed maker; *machinist (reed making)*; *setter (reed making)*, makes reed, a frame of parallel vertical iron wires, secured at their extremities by wooden staves; feeds specially prepared wire to machine that automatically cuts them to required lengths, inserts each wire in position between wooden staves and finishes off by binding with tarred twine round both top and bottom pairs of staves to keep wires apart, and binds each pair of staves together; *cf.* finisher (textile reeds).

reeler, bar reeler (rolling mill); (*Lonsdale*) removes scale, palisades and straightens round steel bars by passing them through hard rollers in a reeling machine.

refiner, refiner man (copper); (*electrolytic process*) a charge is placed used in refining copper by electrolytic process; superintends charging of depositing tanks; adjusts electric current passing through system by reading meters and adjusting switchboard; makes usual examinations of copper deposited in cathodes and directs operations generally; *cf.* refiner (copper) (171).

refiner, dirt; sorts, washes and sifts sweepings of workshops to recover valuable scrap dust, *e.g.*, brass, copper, tin, lead or other metal filings.

refiner, metal; general term for any worker engaged in any process of refining metals, including refining furnacemen (171) *g.*.

refiner, nickel, see nickel cupola man,

repairer, chain (harness); repairs chains by cutting out worn or broken links and by welding or bracing in new ones.

repairer, plough (team car); repairs, by hammering, smithing, bolting, etc. broken or bent parts of plough which attached to underframe of car, picks up current in conduit system.

repairer, syphon; repairs mechanism at top of syphon bottles used for aerated waters, using pliers, files, sandpaper, and other hand tools at bench; usually crimps syphon top on bottle.

repairer, ticket punch; repairs worn ticket punches by filing and grinding jaws or refitting new cutting edges when they are available.

repairer, tool, see fitter, tool; *cf.* tool sharpener (237).

re-rater (gas works); readjusts automatic apparatus in slot gas meters, as price of gas varies, to increase or decrease amount of gas supplied for every coin inserted.

retoucher (photography), see engraver (photography).

rigger (aeroplane, etc.); fixes wire stays on aeroplane or airship and is responsible for their proper tautness, alignment and position; is responsible for condition and, where necessary, for repair of all parts of machine except engine, propeller and instruments.

ringer, fish hook ringer, see bower.

ring maker (textile machinery); general term for any person engaged in making metal rings for ring spinning frames, including ring forger (190), ring hardener (220), polisher (238), ring turner (209) *g.*.

ring spindle maker, *as for* spindle maker.

riveter (brass bobbins); rivets parts of brass bobbins together by holding in riveting machine; usually done by bobbins maker (224) *g.*.

riveter, bank riveter (corsets); assembles parts of corset bones, rivets steel strip together, and rivets a studs and eyes, using hammer and machine riveter.

riveter, saddle tree; (i) see phaser, saddle tree; (ii) forms iron fittings for saddle tree, and rivets them on to wooden or wooden framework.

rod locker; an examiner *g.*, examining rods in rod mill visually and with gauges.

rod ring maker; twists, by hand, with pliers round mandrel, or by machine, wire rings used on fishing rods in order for line to be secured; roller changer; takes down worn rolls and fits new or freshly turned rolls in their place, under supervision of roller (179) *g.*, using chains and overhead tackle.

roller coupler (textile machinery); turner-*is* (York); fits and couples together short lengths of rollers, to form one long roller, for preparing, smoothing, twisting or doubling machines.

roller stretcher; straightens out fluted steel rollers, such as those used in cotton trade, which have become cracked; places roller in chucks of lathe and sets truth against a block; taps roller with copper hammer or wooden mallet, according to hardness of roller to correct irregularities.

rounder (tobacco), see cross rolls man.

rubber (film); runs finished film over piece of steel to detect any defective spots; usually done by examiner *g.*.

sample catcher, see drawer, sample.

sampler (blast furnace); takes samples of ore, coke, limestone, etc. off gas-trunk, hearth, etc. and takes samples of slag or pig iron and prepares them for examination by analyst or other expert.

sampler (copper smelting); inserts small ladle into metal to take a button or small round sample of copper during process of refining; allows to cool and breaks with

hammer; usually done by refiner (copper) (171) *g.*, who examines sample visually and so determines stage of refinement reached.

sampler, mineral; see sampler; breaks up, sieves, weighs and makes top portions of ore for laboratory analysis in such a way as to give a fair average sample of composition and hence of its metallic contents; sometimes specifically designated, *e.g.*, nickel sampler, zinc sampler.

sampler (textile); draws a sample from bobbins, finished spools, or bobbins, examines visually for finish and size, takes thickness with gauge and tests for ductility and strength.

saw doctor; (i) sharpens saws, hand or power-driven, with power-driven grinding machine, and sets teeth of saws at proper angle for cutting; sawyers often sharpen and set their own saws by hand; *cf.* saw sharpener; "lancers" or restores rigidity and true-ness of surfaces to saws, damaged by careless use or strained by heavy work by hammering and rolling, and generally keeps them in good order; *cf.* hammerer.

saw maker; general term for workers engaged in any process in saw making, including hammerer, blocker, smother, paver (279), setter, filer (233), hardener (230), saw backer (269) *g.*; in large works, processes are generally thus subdivided, but most of the men are capable of doing any of the processes, and apprentices learn them all; sometimes specifically designated, *e.g.*, hand saw maker, back saw maker.

saw smith, see hammerer (saw).

sawyer; directs sawing operations in iron and steel rolling mills and is responsible that saw drivers (209) *g.* cut materials to required dimensions; *cf.* sawyer (279).

scuffer (chains); makes links from hot blank by hammering edges of blanks and twisting them together (scuffing), using a hammer or drop press and die.

scraper (musical instruments); cleaner; reduces brazing marks and other irregularities on brass musical instruments, by filing and by scraping with a steel scraper.

separator (lead extraction), see desilverizer.

setter, barrel (small arms); (i) detects faults in barrels, either finished or unfinished, of guns, rifles, etc., by looking down the bore; sets or trues them by hammering with a copper or wooden-headed hammer on a block; (ii) fits gun barrels in a machine which detects faults by means of optical devices; operates machine so that pressure is brought to bear on barrel in required place and continues making adjustments, until barrel is found to be true.

setter, bayonet; tempers blade by heating it in a fire and cooling in oil and in water; sets or straightens it, by working it backwards and forwards between two steel supports on bench.

setter, circles, see circle (textile machinery).

setter, die (wire drawing); plate setter (*wire work*); sets and fits in machine, dies or plates, through which wire is drawn; *cf.* die setter (211); may also draw wire, see wire drawer.

setter, faller setter; fits, secures in position with screws and adjusts mechanism of fallers on mule spinning machine.

setter, frame setter (metallic bedsteads); fixes rail, base, etc. of bedstead into suitable position with necessary moulds at joints, in readiness for pouring metal; is responsible for distance and alignment.

setter, heading machine (bolts, rivets); fits and secures dies in heading machine, i.e. machine which

punches head on bolts or rivets; does minor repairs to machine and instructs helper. *s. v.*

setter, mould (steel); is in charge of operations of setting and stripping casting pits, i.e. placing moulds on pits ready for casting and removing them afterwards; may also assist beside cranesmen (260) *s. v.*; setting ingots and moulds; usually done by pitman *s. v.*

setter, mould (typefoundry); mould fier; inserts and fixes moulds in casting machines, and makes all necessary adjustments for accurate working; obsolete; work usually done by type caster *s. v.*

setter, needle setter, pin setter (textile machinery); hammers in pins, splices, pegs, or needles in component parts of textile machinery, i.e. combs, gills, hackles, lattice rollers, and other combing machinery; sets, i.e., bends or trues pins or needles using hammer, in case of hack saws; *s. v.* combwright (210); often specifically designated, *s. v.* comb setter, comb setter, gill pin setter, hackle pin setter.

setter, plate (scales), *see* leveller (scales).

setter, plate (wire works), *see* settler, die (wire drawing).

setter (reed making), *see* reed maker.

setter (saws), *see* saw setter; sets, i.e. bends teeth of saws with hammer on anvil so that they project slightly alternately to left and to right of central line of saw; in case of hack saws, uses a small power tooth setter, usually also sharpens teeth, *see* sharpener.

setter, spring; adjusts spiral springs to required length or shape; closes up or pulls apart each coil with long or pliers, working against a frame or mandrel or gauge; heats large springs before setting; sets small springs cold.

setter, tool; edge tool setter; sets or finishes cutting edges of tools by filing or by hammering; sometimes whets them on oilstone; sometimes also hardens, *s. v.* edge tool hardener (230), tool setter (211).

testers (cutlery); fixes cutlery blades in huffs, grips or scales, hores holes, drills for pins or rivets with hand or small machine drill, screws with rivets and if necessary, with with cement.

setter-up (spectacles); finally adjusts frames of spectacles, with hand tools at bench, according to prescription or specification.

shaft stretchers; stretchers and straightens shafts which are being turned; places between chucks of lathe, so as to revolve in long V-shaped bed; manipulates levers to cause press to bear on parts out of straight and adjusts holding chucks as shaft, during straightening process, lengthens.

shanker (barren furniture); solders shanks into brass or nickel harness furniture, and files joint smooth.

shanker, wrought nail shanker; cuts off required length of iron rod, for making wrought nail, either with cutter on anvil or with power shears *shaper (slag iron),* *slag iron shaper;* places iron strips in furnace, removes a strip with pincers and beads over mould or pattern, using other pincers; flattens iron under drop hammer, worked by lever; *s. v.* beader.

sharpener, shaper, saw sharpener; (i) sets up, feeds and controls grinding machine which sharpens teeth of saws; (ii) sharpens teeth of saw by hand, with file, immediately after setting, to definite angle and pitch; usually also sets saws, *see* saw setter; *s. v.* saw doctor.

sharpener and settler, saw; a saw setter *s. v.* who also sharpens saws, *see* sharpener.

shearer, bloom, *see* cutter bloom.

shot copper man; pos man (copper extraction); produces "bean shot" by granulation of copper; runs molten copper through perforated ladle into a perforated pan, which is immersed in hot water for "bean shot" or in cold water for "feathered shot."

shuttle spring maker; cuts steel strip to length for weaving shuttle springs; bends strip to shape and drills holes for screws.

shovel on one side of nickle blade, either by hand chisel and hammer or by holding in special file tooth cutting machine.

sight tube maker; cuts from length of tube, and turns in an automatic machine, a small portion used in making sights for rifles, etc.; obsolete.

silverizer (lead extraction), *see* desilverizer.

skate mechanic; does minor repairs to ice and roller skates; fits new screws, adjusts slides and grip; adjusts ball bearings of roller skates; usually works in workshop attached to rink.

slab shear operator, *see* cutter, bloom.

slagger, blast furnace (copper); runs off slag from copper blast furnace or cupola, or from "settlers"; when flow is not continuous, breaks clay plug with bar and replays when flow ceases; runs slag into wagons to be conveyed to dump, or into water where it is granulated; in some works, superheated running off of slag by semi-skilled workers.

slagger, furnace slag (iron and steel manufacture); a superior grade of furnace slag (379) *s. v.* sort under furnace helper (171) *s. v.*; separates flowing off and removal of slag, using trough preparer and bogies or ladles; *s. v.* slag (379).

slagger (zinc extraction); fluxes; draws out molten slag from flux below zinc smelting furnace, with a long rake on to floor; slides slag into iron basons for conveyance to slag pit.

slag trier (copper extraction), *see* tester, slag.

slay maker, slay maker, *see* finisher, slay.

slizer, *see* cutter, ingot.

slipper, *see* packer (shipbuilding).

smith (saw), *see* hammer.

sorter, hand sorter (galvanized sheets), *see* sorter (galvanized sheets)

sorter (needles); bright worker (needles); spreads out needles, after glazing, on table; rolls them about with fingers and flicks out any that are crooked, marked, broken or otherwise defective; *s. v.* sorter (needles) (279).

slag; slag; sets out slag, containing a high percentage of metal, for remelting; slagging heavily by colour.

sorter, tin sorter (tin boxes), *see* sorter (tin boxes).

sorter, tin sorter (tinplate), *see* sorter, wire tooth (card clothing); sorts out wire teeth according to size and gauge, preparatory to setting them in cloth or leather foundation of card clothing.

spade and shovel handler, spade and shovel shaker, *see* finisher, spade and shovel.

spelterman, spelter worker (zinc extraction); general terms applied to workers in zinc extracting and refining works, includes divider (17), residue dresser (278) under (17), residue furnaceman (171), zinc recovery hand (379) *s. v.*

spindle flinger, *see* tester, spindle.

spindle maker; general term for any person engaged in making steel spindles for textile machines, including spindle forger (180), spindle grinder (334), spindle painter (237).

spindle setter (210), spindle roller (250), spindle straightener *s. v.*; sometimes specifically designated, *s. v.*, flyer spindle maker.

springer (tubes); straightener (tubes); slips tube through a loop of rigid iron fixed in vice, and removes slight bends in finished last-welded or lap-welded tubes by springing or pulling tube against sides of loop.

spring maker; makes springs throughout; (i) makes leaves of laminated springs or heavy spiral springs for vehicles, rolling stock, generators, etc., *see* spring smith (180); sometimes hardens and tempers them, *see* hardener (230); bolts and fits leaves together and fits springs; (ii) stamps out flat springs and hardens and tempers them for weighing machines, small arms, textile machinery, etc.

spring maker, carriage (textile); a spring maker *s. v.* who makes springs for carriages of mule spinning machines.

spring scrapper, *see* tester, spring.

spur tackler, *see* fitter, spur tackle.

squarer, hinge squarer (iron hinges); (i) cuts, drills, hatches ball of iron into a hinge, and squares to gauge, rings of hinges, using saw, hand or machine drill and emery or carborundum wheels or files; (ii) operates power press which squares hinges made of mild steel.

squeaser man (pneumatic furnaces); puts, with tongs, heated ball of iron into a boiler or squencer, worked by chain on roller, which exercises a continuous pressure on it; obsolete; term to be distinguished from shinder (174), who hammers it under a steam hammer.

staver (tubes); fixes end of tube into a punching machine which compresses the end or thickens it for strengthening purposes; may also expand tube, *see* expander (tubes).

stayer; fits boiler stays in position, screws them up and cuts off superfluous metal, with hand tools, by machine, *see* staving machine worker.

staying machine worker; operates staying machine which drives and taps holes, screws up boiler stays and cuts off superfluous metal; *s. v.* stayer (259).

steel bar maker, steel shaft maker (textile machinery); shapes and makes steel bars and shafts either by forging, or from block or ingot steel, *see* forger (180), or by shaping with turning, milling or other cutting machinery, *see* turner (200).

steel worker (steel manufacture); general term for persons engaged in manufacture or rolling of steel, including changer (177), bloomer (170), furnaceman (171), roller (178) *s. v.*

straightener, comb (textile combs); a needle setter *s. v.* who mechanical in bending tube, with hand pliers and a gauge, pins or needles in textile combs out of alignment, etc.

straightener, guide reeling, *see* straightener, rod mill.

straightener, hammer (needles); hammers crooked needles on small anvil to straighten them.

straightener, hand; a hammer straightener *s. v.* who straightens needles after hardening.

straightener, iron plate, *see* straightener (saw).

straightener, plate straightener; simple operator, plate straightener, plate straightener, straightener; operates levers which control rollers or mangle used for straightening steel plates after rolling, or in boiler and tank making; uses a bed of heavy steel plates for use in making boilers, tanks, etc.; sets gauges and adjusts space between rollers by means of screws; directs work of labourers in slugging plates into position on bed of machine.

straightener, rail straightener; with assistance from labourers, swings from crane, finished steel

rolls on to bed of "gag press"; sights along head of rail from one end towards a light at other end, to detect bending; moves rail so that crest of curve is immediately under press and then gives instructions to man (179) g.v. straightener, rod mill; gauge rolling straightener; straightens rod, while hot after rolling, on mill floor, by hitting with hammer (usually wooden hammer).

straightener (bars), saw straightener, saw plate straightener; iron plate straightener; straightens or flattens stone cutting saws bent in use, by hammering on an anvil or iron plate.

straightener, soft (needles); a hammer straightener g.v. who straightens needles in the soft, i.e., before hardening, on anvil, with hand hammer.

straightener, spindle; spindle stretcher; (i) a straightener g.v. employed in a mill where spindles are produced; operations similar to those of rod mill straightener g.v.; (ii) for small spindles used in textile machinery; a tool with a hand hammer on a steel plate to reduce irregularities.

straightener (tubes) tube stretcher (rod); (i) straightens flattened tubes by placing them between plates, the upper of which is moved rapidly backwards and forwards by machinery, by feeding them into specially constructed straightening rolls, or for heavy tubes, by manipulating them under a sledge hammer; (ii) see springer.

straightener, wire (reed making); straightener, reed; a tool for straightening reeds; examines flattened wire ends or teeth in reeds made by reed maker g.v. (for textile looms); withdraws ends that are faulty, substituting good ones by hand; bends wire, where necessary, to make distance between teeth uniform; cf. wire straightener (179).

straightener, wire straightener, plate stretcher, see straightener; sometimes specifically designated, e.g. spindle stretcher, tube stretcher.

straddle (metallic bedsteads), angle iron straddle; fits studs, to which laths are attached, into punched holes in angle-iron of bedsteads by power or hand press.

sweaver (tubes), see beveller (tubes).

swivel maker (sporting rifles); cuts loops from rod steel on shearing machine, bends to shape on bending machine, drills and rivets loop to swivel on riveting machine or by hand riveting.

tackledman (steel manufacture); erects, and is in charge of, lifting tackle, chains, blocks, slings, etc., used for lifting and moving plant and material about works; maintains tackle in good repair.

tagger (tubes); a tool for drawing tubes ends of iron or steel tubes in tufile furnace and reduces diameter of end by hammering by hand on an anvil or under a power hammer with aid of squaring dies, to enable end of tube to be pushed through bell or die and so form grip for drag on draw bench; sometimes feeds tubes to welding rolls or merely passes to tube drawer or tube welder (206) g.v.

Talbot furnace worker; a steel worker g.v., working at Talbot furnace, to charge (239) g.v.

tapper (foundry); taster; breaks clay plug in tapping hole of cupola with a pointed steel bar, so releasing molten metal, which falls into ladle; periodically taps slag at slag holes; usually done by furnaceman (171) g.v.

emptied, drills or hammers out clay with which tapping holes are closed, and keeps molten steel flowing by means of a long bar.

tapper (rolling mill); taps steel plates with hammer, to detect flaws by ring of metal; cf. chiseller.

tapper (sine extraction); see drawer (sine extraction).

tapping man (lead extraction); lead taster (not foundry); (i) opens iron plug by turning worm screw and so taps from lead from "perchway kettle," i.e., vessel in which lead is collected after zinc has been expelled, in process of delivering, and runs it into cast iron pig moulds; in this form it is "merchant" or commercially pure lead; (ii) runs off molten metal from reverberatory furnace, after impurities have been skimmed off, into cast iron pot or kettle, which is placed below tap hole; usually done by furnace man (171) g.v.

tester, see tapper (foundry).

teemer, ladle teemer (steel manufacture); power; (i) pours steel from converter or tilting furnace into ladles by turning wheel controlling angle of converter; (ii) moves lever raising stopper of steel ladle, thus allowing molten steel to run out into moulds prepared by pitman g.v.; closes pouring hole in similar way when mould is full, and repeats operation till all steel has been poured into moulds.

teemer, spigot (steel manufacture); taps cupola by breaking through clay plug in tap hole with iron rammers and sperrines tamping or pouring of spigot holes from spigot cupola into ladles and from ladles into converter.

teemer at mixer, metal teemer at mixer (blast furnace); a ladle teemer g.v. pouring molten iron into mixer (tilting furnace) in which up to 400 tons of molten metal are mixed and stored from ladles and from mixer into ladles.

teeth maker (card clothing); sets up machine which cuts, bends and points wire teeth for card clothing; cf. card setting machine (183).

tester; gauger; general term for workers testing pipes, boilers, motor cars, finished machines, engines, etc. for strength, water tightness, steam running, power, efficiency, etc., operations vary considerably according to article tested and method or machine used; nearly always use gauges and templates, takes readings of dial, etc., and records results in text book; sometimes specifically designated, e.g. fuse tester, hollow-ware tester, sewing machine tester, rail tester, stove tester, wire tester.

tester, bench (motors, motor cycles); see taster, engine (bench).

tester (boilers and tanks), boiler tester; tests boilers by filling with water and connecting up with hydraulic pressure pump; takes care of a string of coaches connected up with engine; with brakes on, reads all pressure gauges and in event of any leakage or faulty working, eliminates coaches one at a time, till fault is traced.

tester, car; engine tester (road); a test man, road tester (motor); drives finished chassis to test it under road conditions and reports behaviour; if necessary, makes minor adjustments during trial; frequently done by engine or chassis fitter (235) g.v.

tester, carbon; makes rough chemical tests of samples of steel, taken as steel "buttons" from furnace, to ascertain carbon content; usually done by shift chemist and his assistants.

tester (chain testing house); see examiner (chain testing house).

tester (cycles); see examiner (cycles).

tester, engine (bench); bench tester, motor tester, tuner (rehearsal); runs engine on a bench under artificial conditions approximating to strain imposed upon it under road conditions, usually by applying a measurable braking force to fly wheel; takes revolutions per minute; may take indicator diagrams and calculates indicated horse power; reports behaviour and, if necessary, tunes up or makes minor adjustments.

tester, engine (road); see taster, car.

tester (files); see examiner (files).

tester, heat (blast furnace); takes temperature of furnaces and steves and of heat entering furnace, by reading pyrometer; now generally done by stove minder (171), foreman or chemist, or by manager.

tester, matrix; tests brass matrices, to be used in type casting by linotype process, by taking a trial cast, comparing with a standard letter and measuring for depth of strike, truth of alignment, etc.; machine matrix or shapes it by hand tools at bench, if alteration is required.

tester, meter (gas and water meters); per meter prover, meter prover; tests gas or water meter by passing measured quantities of gas (or air) or water through them and checking readings; also tests meters to ascertain that they are gas-tight or water-tight, by connecting up with compressed air pump and immersing in water.

tester, motor, see taster, engine (bench).

tester, pipe, see tester, tube.

tester, rivet; hits heads of rivets of boilers, etc., with a small testing hammer to ascertain by sound whether the rivet is tight or loose; applies steel searchers in plate seams, etc., to detect gaps; sometimes done by riveter (205) g.v.

tester, road (motors); see taster, car.

tester (rolling mill); see test house machine attendant.

tester, slag (copper); flows from blast furnace or cupola or refining furnace; granulates them by dropping or pouring into water and tests granules for their copper content by cracking them and making visual examination; may pass to chemist for chemical analysis.

tester, spindle (textile machinery); (i) spindle gauger; tests, with measurements, gauges, spindles for textile machines, to ascertain if dimensions are correct; (ii) spindle fitter; places and connects spindle in a gut driving belt, to revolve shaft; watches spindle as it revolves (1,000 r.p.m.) and feels with finger for any roughness; rejects spindles not running true; sometimes roughness with energy cloth; sometimes specifically designated, e.g. ring spindle tester, spindle and flyer tester.

tester, spring; spring examiner, spring stragger; (i) tests spiral springs placed spring in holder and moves lever to bring controlled weight to bear on spring; reads length of spring and pressure upon it from gauge and pressure dial; may also measure length of spring before and after test (ii) heavy spiral and tension and laminated springs places spring on bed of hydraulic press or strapping machine; controls valves and levers to bring pressure to bear on spring, takes readings of dial; then releases pressure gauge and pressure dial; releases pressure and again measures length or area of spring on gauge.

tester, tank; fills tanks with water and attaches water pressure pump; controls pump valve, takes readings from gauge and watches for water leaks; certifies tank as tested at given pressure per square inch.

tester, tube tester; pipe *tester*, prover (tube); tests tensile strength of finished iron and steel tubes, generally by means of internal hydrostatic pressure; connects pipe to hydraulic pressure pump, controls valve and takes readings of pressure gauge; also applies compression tests in testing machine, see test house machine attendant.

tester, wet and dry (chipbuilding); a caulker (hand) *q.v.* who does caulking, injecting, etc., in preparation for and during testing for watertightness.

test house machine attendant, test house machine man; tester (rolling mill); places test piece of metal, *e.g.*, iron bars, steel rails, in different types of hydraulic or electric testing machines, which measure flexibility, tensile strength, etc.; controls valves and levers to apply pressure and bending moments; reads dials and gauges, indicating pressure, deflection, etc., and makes records in test book.

test man, final, see tester, *car*.

tongaman (steel forging); guides steel forging, iron or steel bar or sheet while being worked upon by power hammer, press or rolling mill, with tongs suspended from travelling trolley by a chain; sometimes specifically designated according to work, *e.g.*, front tongaman, tongaman at clogging, tongaman at finishing, tongaman at roughing.

tracker (cycles), see examiner (cycles).

triangle maker; bends over, by forging, one end of special steel rod; bends rod to red heat, secures it in a vice, and bends it by hand to shape of triangle; grinds to give bright finish.

trass, spring maker; bends steel strip, either by hand over a former or by machine in a press; punches holes at each end in punching machine; may also harden and temper springs, *i.e.*, by heating in fire and quenching in water or oil.

trayer (drums, legs); a tester *q.v.* who inserts rubber bung into drum (or leg) and connects with compressed air cylinder; examines drum in tank of water, turns on cock of air cylinder and watches for air bubbles; marks position of any leak and returns faulty drums for re-soldering or dipping.

trayer (gas fittings), see prover and tester.

tube manipulator (tubes); expands, bends, flanges, crushes or shapes tubes to section, and performs other similar operations, by hand or with machine tools; *cf.* bender, expander, tube presser; sometimes fits tube with resin or pitch to prevent belting.

tube presser; fits dies into power press and inserts tube against gauge, to be shaped or pressed, *e.g.*, cycle forks, ends of which are pressed flat to take nuts.

tube shoulderer; prepares one end of solid drawn copper or brass tube for draw bench, by reducing or tapering it; places end in power-driven hammering machine, moves starting lever and turns tube, by hand, in machine.

tube stemmer, see tapper.

tuner, bell; cuts and trims with chisel and file, bell, preparing to quench size of formation in order that note shall be correct.

tuner (vehicles), see tester, engine (bench).

tungsten former (wireless valves); (i) feeds pure tungsten in powdered form into bath of molten iron or iron black; (ii) hammers heated blocks of tungsten into rods on an anvil by hand.

tungsten plate cutter, tungsten plate former, tungsten plate maker (wireless valves); cuts plates from sheet tungsten in shearing machine; forms or bends cut plates for anodes in a press fitted with heated dies and pig (or former).

tungsten wire worker; general term for workers engaged in making tungsten wire for wireless valves, including tungsten former, wire drawer (268) *q.v.*

tuning fork maker; receives tuning fork after it has been hand tuned, secures it in vice and shapes length of arms and body of fork with special file; till desired note is obtained; judges note by ear and compares with standard forks tested by National Physical Laboratory.

turner (gig iron); feeds straight strips of iron into mangle machine, against a pattern or mould, to be pressed into shape of load iron or of front iron, after they have been cut to length by cutter (270) *q.v.*; changes moulds in machine, as required.

turner-in (textile machinery); (Yorkshire), see roller coupler.

type founder; founder (type), letter founder; a thoroughly skilled man, capable of making type throughout, performing the work of matrix maker and caster *q.v.* and either doing the finishing himself or superintending the various workers engaged in finishing cast type, *i.e.*, dummies, finisher, learner, breaker (279), pager (279) *q.v.*

type dropper-on, tyre farnaceeman, tyre heater (rolling stock); wheel dropper-on, wheel keeper; beats tyre in furnace to red heat to expand it; places it on wheel centre, where it contracts in cooling and grips wheel centre and disc or spindles with strong pressure; may also hammer tyre under special axle hammer.

umbrella notcher; fixes notch, *i.e.*, notched ring to which ribs are hinged, in steel tube or wooden stick by drilling and riveting in a pin with hand hammer.

umbrella rib bender, umbrella rib curver; fits special dies into hand or power press; places rib in press by hand and manipulates hand lever to cause press to descend and bend rib to shape.

umbrella rib maker; fixes various dies and gauges on semi-automatic machine; places spool of grooved wire on spindle and feeds end of wire through tempering gas-heated furnace and through straightening plates into machine which cuts and bends the wire, presses end together in joints and punches rivet holes in ribs; watches machine for proper working.

umbrella riveter; assembles stretcher and rib and rivets pin through hinge with hand hammer at a bench.

umbrella springer; fits spring in position on steel tube or wooden stick and secures by riveting pin with hand hammer.

valve distributor, valve man (steel manufacture); attends to gas valves (burners and turners) and keeps in working order; sees that water used in reversing levers, as in order; repairs defective parts, using hand tools; usually done by fitter (219) *q.v.*

vessel man (steel manufacture); inspects Bessemer converter, after each heat, looking through blue glass, repairs bottom and patches lining with fireclay; if necessary, uncovers and removes bottom for more extensive repair; also removes with hammer and chisel, solidified steel on lip of converter.

viewer, see examiner; sometimes specifically designated, *e.g.*, action viewer (small arms).

viewer, ball bearing; tests with gauge and by visual examination, for size and perfection, balls for ball bearings; rejects faulty balls; if viewer (cycles) scrutinizes each part of cycle at each stage of manufacture to detect faulty material and errors of size.

viewer (tubes), examiner, inspector (tubes); carefully examines tubes at various stages of manufacture for defects in material; also checks dimensions with gauges.

viewer of castings, see passer (iron-foundry).

washer, hand; a dirt runner *q.v.* who finishes workshop sweepings by hand.

washer, pan mill; a dirt refiner *q.v.* who washes shop sweepings in a pan mill.

washing tables attendant; a dirt runner *q.v.* who attends washing tables operated by power; brushes, crashed ore or dirt on to tables and controls water supply and speed of tables.

watcher, slag watcher (steel manufacture); notes colour and viscosity of slag, which indicates condition of charge in furnace; sometimes done by furnace watcher (171) *q.v.*

wheel blocker and setter (railway coach); blocks and sets up train, composition wheels of railway passenger coaches, *i.e.*, wheels with steel tyres and centres of wooden or compressed paper discs; cuts wooden blocks to V-shape on circular saw, weighs each piece on scales and matches up; fits pieces into circular iron band and tightens up with bolts; cuts out centre for boss with hand saw; drills holes in wheel blocks with jig and multiple drilling machine.

wheel builder, cycle wheel builder; wheel maker; loses a few spokes through flanges of hub; attaches them to rim of wheel and tightens them up until hub is approximately in centre; places remaining spokes in position; roughly adjusts wheel, sets it on spindle in a jig and trues it up.

wheel builder (perambulators); wheel maker, perambulator wheel maker; makes wheels for perambulators, mail carts, etc., either by threading spokes through holes in hub and riveting free end through corresponding holes in rim; or by passing headed spools through holes in rim and screwing them into hub; trues up wheel in vice, by bending rim and adjusting lengths of spokes.

wheel dropper-on, see tyre dropper-on.

wheeler; puts wheels, after they are built, on to axles of bicycles, chains, portable engines, etc., inserts balls in ball race, if any, screws on adjustment cone or collar, dust ring, oil bar, etc., according to type of wheel; sometimes done by wheel builder *q.v.*

wheel hooper, see tyre dropper-on.

wheel lacer (cycles); nipper, wireman; makes a few spokes through holes in rim and hub and screws on nipples ready for wheel truer *q.v.*

wheel lacer and drillers; a wheel lacer *q.v.* who previously drills holes in rims in drilling machine with jig or diamond plate as guide, sometimes done by wheel truer *q.v.*

wheel maker (cycles), see wheel builder (cycles).

wheel maker (perambulators, etc.), perambulator wheel maker; (i) see wheel builder (perambulators); (ii) general term for workers engaged in any one of a number of different operations which work of wheel-making is sectionalised *e.g.*, hub driller (300), hub maker (209), rim welder (249), rim worker (279), wheel lacer *q.v.*; sometimes specifically designated, *e.g.*, basinette wheel.

wheel presser, see assembler, wheel and axle.

wheel truer (cycles), cycle wheel truer; (i) places wheel on a spindle or a jig and trues it up by tightening or slackening spoke nipples and, if necessary, adjusting rim in vice; (ii) adjusts fork attachment and bearing hub to set wheel to run true between forks.

wheel truer, wheel truer-up (perambulator, etc., for wheel trueness); usually done by wheel builder *q.v.*

willow tooth maker; woolley tooth maker; cuts teeth or spikes from steel rod with hack or machine saw; forges them to correct shape and finishes them with file, etc., ready to be set in rollers of willowing machines, used for operating wool and other textile materials, to remove dust, etc.

which fitting maker (fishing rod); assembles and adjusts metal and wooden parts of fishing machines, using hand tools at bench.

wireman (cycles); see wheel lacer.

wireman and truer-up; combines work of wheel lacer and wheel truer *q.v.*

wire turner (textile machinery); see wire worker (textile machinery).

wire worker (branch hand); general term for any person who makes wire goods, wholly or in part by hand, by straightening, cutting, bending, carving, etc., wire to required shapes.

wire worker (foundry); shapes wire, for use in core making, on a handlathe, using hammer and pliers.

wire worker (pianos, etc.); cuts, bends, points and threads wires for piano or organ actions with a wiring machine.

wire worker (textile machinery); wire leader, wire turner; makes screws, gauges, and other wire appliances for textile machinery, turns or bends wire over a pattern using hammer and hand pliers.

woolley tooth maker, see willow tooth maker.

work board hand (outfitter), see putter together (outfitter).

wrought nail maker; forges wrought iron nails, by hand, on "Oliver" hammer; *cf.* crammer.

zincage man; carries out operations as Parke's process of desilverization of lead, by means of direct action of metallic zinc; carries out one or more of such duties as running molten lead into cast iron pots, skimming molten lead with special skimming tool, adding metallic zinc (either solid or molten), stirring mixture, skimming off triple alloy of lead, silver and zinc as it solidifies, etc.

zinc fixer; cuts sheet zinc and fits and fixes it with zinc nails, screws or rivets in sinks, on roofs, etc.; *cf.* zinc roofer (278).

279—OTHER WORKERS.

accessories worker (sewing machines); obtains from store a supply of sewing machine accessories, e.g., oil can, screw driver, spanner, extra spools, bobbins, ticking, etc., fittings; has or tries them on machine and if satisfactory, wraps accessories in paper ready for despatch with machine (tailoring mill); *see* lift-up (rolling mill).

angle chopper, see cropper, angle.

angle mill worker; general term for any unskilled worker employed in any capacity in rolling mills where angles are rolled, lifting, pushing, dragging, etc.

ashes man, ashes wheeler, ashman; takes out ashes from fires, e.g., boilers, puddling furnaces and conveys ashes on wheelbarrow to ashes dump; ashes are sometimes removed by coal wheeler or by coal and ashes wheeler *q.v.*

assembler; in engaged in various metal trades in fitting together component parts of machines, metal articles, etc., e.g., chains, chassis, cycles, fuses, scales, sewing machines, stationary engines, does not alter or adapt parts by filing, scraping, etc., but merely fits parts in place; sometimes specifically designated, e.g., bottle cap assembler, brake assembler, cycle brake assembler, duplicating machine assembler, motor assembler,

motor-cycle assembler, sewing machine assembler, *cf.* cycle assembler (269), assembler (bedstead) (278).

assembler, axle; (i) assembles, or puts together without altering or adjusting, parts of axles for horse-drawn road vehicles; (ii) fits front and rear axle assemblies on carriages, coaches, etc.

assembler, ball bearings; assembles steel balls into races, and packs assembled bearings into cases.

assembler, bell, *see* bell maker.

assembler, bottle cap; crown cork assembler; controls levers of machine which fits discs of paper and cork into metal caps; feeds boppers with caps and paper and cork discs.

assistant at mandrel (iron and steel tubes); places mandrels in position in roll grove in course of long steel bar during process of tube rolling.

assistant gas man, assistant stove minder; assists stove minder (171) *q.v.* by operating valves, shovelling fine dust into barrows and doing any odd job.

assistant glazer, *see* glazer's assistant.

assistant grinder, *see* grinder's assistant.

attacher (sewing machines); an assembler *q.v.* who specializes in attaching one special part to sewing machine in course of building; works at bench, usually with screw-driver, spanner, file, etc.

auto attendant, automatic attendant, automatic machine attendant, automatic machine feeder, automatic machine hand, automatic machine minder, automatic machine operator, automatic mechanist; general terms for operatives who feed and operate automatic machines used in various metal trades, e.g., manufacture of cycle parts, motor and cycle accessories, trams, screws, etc.; work consists mainly in wrenching, cleaning and oiling machine under instructions of tool setter or foreman; stops machine if any fault develops.

automatic screw machine hand, auto screw machine operator; auto screw attendant; feeds and operates machine automatically making screws throughout from hexagon bars, or prepared headed blanks.

axle crammer; works chains of hand crane, and places hot forging in position under hammer for working.

axle lagger; assembles over finished bearing parts of large axles, in process of making or fitting, by nailing round bearings pieces of wood and hoop iron, to prevent damage.

axle plinner; fits and drives lynch pin into slotted hole near end of axle, often done by axle slotter (269) *q.v.*

backbitter, *see* metallist.

backer (sawmaking); (i) *see* glazer's assistant; (ii) *see* grinder's assistant.

backer-up; see turner-up (iron and steel tubes).

back fixer, saw back fixer; saw backer; forges saw in steel or brass hack used to stiffen certain saws; adjusts it and takes out any resultant twist in saw, by counteracting it between two iron supports on bench.

backhauder, angle iron smith's backhauder; angle iron smith's helper, helper (forging); assists angle iron smith (193) *q.v.* by lifting, moving and handling bars of iron or steel on which smith is working; sometimes acts as striker (193) *q.v.*; *cf.* angle iron smith's striker (193).

back hole stopper; lock stopper; pushes skip (but metal strip) through small door in back of heating furnace or muffle in preparation for tube welding; closes door with door plate or stopper.

back maker, saw back maker; operates levers to double over steel or brass blank in power-press to form stiffener for certain saws.

back sawer, back sawman, back

sawyer; assists sawyer, by holding tail end of bar against guides and following it down to saw, to keep it straight; takes last scrap piece of bar in tongs and throws on scrap heap.

back stopper, see back hole stopper.

bag frame riveter; rivets together, by hand, frames of travelling bags, portmanteaus, etc.; sometimes uses riveting machine.

baghouse man (lead extraction); attends to cooling apparatus and bag funnel filters made for separation and collection of fume or fine dust from gases leaving furnaces; removes clogged bags from time to time and hangs up fresh ones.

ball boy; puts balls on iron rods used as mandrels for tubes, in tube making, to keep tube perfectly round; dismantles balls from rods and sorts balls away according to sizes.

ball man (blast furnace), *see* tipper, slag (blast furnace).

bankman, bar bank man (iron and steel rolling); general terms for any workers on a hot or cold "bank," i.e., stack of bars before rolling, or rails, or other materials after rolling; where only light articles are handled, lifts, stacks, loads, or otherwise moves them, by hand; terms include bar discharger, bar loader; in heavy mills, assists crane driver (350); sometimes specifically designated, e.g., rail bank man.

bankman, bar bank man (puddling); bar lifter; lifts, carries, stacks, etc., finished bars of wrought iron, and is responsible for their safe storage; sometimes does work of bar dragger *q.v.*

bankman hot; hot bench man, hot piler; a bar bankman (iron and steel rolling) *q.v.* working on hot bank, stacking hot billets, rails, bars, etc.

bankman, slag, *see* tipper, slag (blast furnace).

bankman, *see* tipper slag (blast furnace).

bar bank boy; (i) (iron and steel rolling); greaser; assists bankman *q.v.* by greasing conveyor slides, etc.; (ii) (puddling) assists bar bank man *q.v.* in handling small bars.

bar dragger; (i) (galvanized sheet) bar drawer, dragger-out; charges rough bars into roughing furnace and draws them thenceforth with tongs, attends to firing of furnace and assists catcher (178) *q.v.*; (ii) (puddling), bar carrier (puddling); drags with tongs or pushes on trolley, wrought iron or bars from rolls to bar bank, or to rolling mill, and often also weighs them; sometimes done by bar bank man *q.v.*; (iii) (tinplate, sheet mills), bar drawer (tinplate); charges furnace with bars; draws them with tongs when heated and passes them to breaking down rolls.

barman, billet wheler; works on bar bank of iron and steel tube mills, unloading, stacking and issuing supplies, and loading trucks for conveyance into rolling mills.

bar minder (pins), *see* machine minder (pins).

barreller, shaking barreller; barrel shaker (does and shoe plate, iron and steel hollow-ware), brightener, polisher, sear, shaker, shaking barrel rumber, tumbler (boot and shoe plate), rumber (brass spinning and finishing); places abrasive articles cleaning material and oiling, in revolving cylinder (shaking barrel), in requiring cleaning or polishing, sometimes also mixes abrasive ingredients.

barrel polishing attendant; assists in pin plating shop, by filling and emptying revolving cylinders in which pins are shaken together with molten tin and flux, to ensure that they are completely tin coated; *cf.* barreller.

barrel prover; *gun prover*, *proof gun*, *test*, in gun proof house, soundness of gun barrel, and functioning of action by firing a cartridge of maximum charge allowed by law, marks gas passing test with punch and hammer.

barrier-rod; feeds automatic and semi-automatic machines used in making bright steel and bolts with metal bar; stops machine if not working correctly.

barrow man, *barrow runner*, *see wheeler*; sometimes specifically designated, e.g., clay barrowman.

batter, *plate*, *betterer*, *plate betterer* (steel rolling), (*Storeport term*) *see plate refiner*.

thayman (steel works); *Loamshire term* sweeps up floor around furnace in steel works and generally keeps it clean.

hammer; winds soft wire for weaving or braiding on beam of old textile loom used for purpose; places coil of soft wire on spindle and fixes beam in chucks of power-driven lathe; fixes wire to beam and starts lathe.

bedman (blast furnace); prepares, with shovel and runner, and beam in which molten metal, for making pig iron is run; sprays water on metal to hasten cooling it in readiness for handling.

behinder (tube and pipe making); *see turner-up* (iron and steel tubes).

bell lowerer (blast furnaces); raises and lowers bell top to blast furnace, by means of a lever, at signals from furnace keeper (171) *q.v.*

bell maker; *bell assembler*; an assembler *q.v.* engaged in fitting together component parts of cyclic bell.

bellows man; blows bellows on hand forge, used in shipbuilding and marine engineering, by working treadle with foot or by hand lever.

bench hand, *see vice hand*.

bliss man, *see harman*.

blinker, *see jumper* (pins).

blackener, *roller*, *sprayer*; Berlin black on coat, stove, etc., from paint spraying machine; sets articles in stove to dry.

bleaster, *see breaker*, *hear*.

blast furnace band, *blast furnace belp*; *blast helper*, *Acipser*, *keeper's helper*; does unskilled work about blast furnace; carries charges, breaks pigs, assists in laying out pig bed, during tapping and stopping of furnace; cleans out dust catchers and stoves, wheels away pig iron; attends conveyer which removes slag in ladles; assists furnaceman or keeper (171) *q.v.* generally.

blende conveyor; *shovels blende* (zinc sulphide) into hearth, where iron placed to place as required, in zinc extraction works.

blende worker; general term applied to unskilled workers in zinc extraction works, who handle blende (zinc sulphide), includes blende cleaner, blende conveyor *q.v.*

blocklayer (cinder tip, blast furnace); loads wheels of cinder wagons, before they are tipped, at cinder tip of blast furnace; sometimes done by shunter (704) *q.v.*

block minder (wire works); attends to and unwinds reels or blocks round which wire is wound after passing through galvanizing tank or annealing furnace; replaces full reels with empty core for fresh winding.

blower (bolts, nuts, and rivets); (i) opens and shuts valves of blowing machine which forces air or blast into coal furnace for heating hot blanks; (ii) controls valves of oil pump which sprays oil into oil furnace used for heating hot blanks.

blower (general engineering, including boiler and tank making); blows bellows of smith's hearth by working hand or foot lever; controls levers of blowing machine, which is used, under smith's instructions, to

blower (slag and slag wool); *scander*; regulates slag run, and turns on and regulates steam jets with which slag is treated in manufacture of steel wool; cleans out slag troughs ready for next "run."

blue billyer; *jetifier* (padding); grinds various forms of steel oxide (purple ore, pottery shine, hammer scale and tap (cinder) in an edge runner or mortar mill, mixes it with water to consistency of mortar, and puts it on floor near furnaces for use of furnacemen (171) or puddler (172) *q.v.* in repairing or re-lining furnaces.

blue sloner (watches and clocks); stains metal surfaces with "blue stone" by dipping parts in a solution of copper sulphate or by rubbing the surfaces with a rag dipped in the solution.

bobbin hooper (textile machinery); tube and hoop cleaner; feeds wooden bobbins into chutes of spinning machine which draw metal hoops on bobbins; watches machine to ensure smooth running.

bobbin riveter; (i) rivets together component parts of special textile condenser bobbins made from sheet metal, (ii) rivets ends or flange to wire shaft of small bobbins used in certain lace machines, and in ordinary sewing machine, *cf. brass bobbin maker* (226), *riveter* (brass bobbins) (208).

bobbin stepler; pricks ends of bobbin with hand tool, pieces staple in loop in position and places on mechanical "hammer" operated by hand lever, to fix loops of metal or shields on leveled flange ends of wooden spool bobbins used in textile trades.

bogey, *bogeyer*, *bogeyman*; *bogeyman*, *troller*, *troller*; (i) bogeyman, rolls or shunts from re-ingo or plate to furnaces to rolls, or from rolling mill to shearing machine, on a two-wheeled truck, or "bogey" (ii) supports end of very large and heavy steel plates on bogey, as they pass through rolls; sometimes specially designated according to rolling mill, e.g., sheet mill bogeyman, or according to duties, e.g., bogeyer to haul (rolls to stock bank), bogeyer to rolls (rolls to furnace), bogeyer to shears (rolls to shears).

bogie boy; *assists bogeyman* *q.v.* and *bogie boy* under his instructions. *bogie man* (i) *see bogeyman*; (ii) an older *q.v.* oiling or greasing axles etc. of bogey cars.

bolt boy; *assists shell plate's tackle man* (223) *q.v.* by pushing bolts through holes indicated by tackle man, in fixing plates.

bolter, *bolter-up*; temporarily fixes plates in position with bolts before riveting, or bolts flanges of pipes together, or generally assembling various parts of any large article with bolts and nuts.

bolter, *wheel*; screws up nuts on bolts which hold together centres or wheels of railway stock, with spanner.

bolt machine worker, *bolt machine*, *bolt maker*; feeds iron or steel rod in to semi-automatic machine used in manufacture of bolts; controls motion of machine by levers; sometimes specifically designated, e.g., wagon bolt maker.

bolt screwer; screws threads on bolts or nuts in screwing or tapping machine; clamps work in position and controls by hand levers machine which actuates cutting tool.

bender (electrical); assembles and bolts together, armature discs to form electrical armatures and stators.

boer, *ingot boer*; drills holes in steel ingots on horizontal drilling machine for insertion of mandrel when rolling into tubes.

boher; *underfoot man*; catches sheets from soaking bath, in galvanised sheet works, and sheets them in water-bath, to wash off acid box folder; *edger* (tin boxes); places sheet of tin on bottom bar of iron box, and pulls down lever to cause top bar to descend and fold over edges of tin boxes, *assists*, *etc.*, before forming of box former (204).

bohmman (blast furnace), *see weicher* (blast furnace).

brake block maker; puts together sections of metal for carrying brake blocks of motor vehicles, and rivets them by hand with hammer, *cf. brake block maker* (448) and (504).

breakman (blast furnace); applies brakes to bogies, *etc.*, carrying materials along incline from lime kiln to bottom of furnace house, slag tip, to and from furnace, *etc.*

brander (galvanised sheet); brands galvanised sheets, with brush and pencil, showing maker's name or mark.

brander (sewing machines); *number stamper*; marks wooden part of sewing machine with numbering iron giving number of machine, with number and size of parables.

brander (tinplate), *see stamper* (tinplate).

branner; a timmer's belp *q.v.* attending branning furnace, which cleans pins out from timed plate by means of revolving lathes covered with bran, or with a mixture of lime and sawdust; places sheets by hand between rollers of machine; *cf. cleaner* and *roller*; sometimes specially designated according to whether black or white plates are being cleaned, e.g., black branner, white branner.

brass threader (perambulators); cuts threads on inside of brass caps attached to ends of wheel axles of perambulators, *etc.*, secures cap in vice on bench and screws in tapping die and wrench.

breaker, *beer*; *boxer*; one of a contractor's gang who first and then breaks with dynamite, hard slag which forms at bottom of blast furnace.

breaker, *billet*, *see cutler*, *hillet* (rolling mill, puddling).

breaker (blast furnace); *blast breaker*, *pig breaker*, *pig iron breaker*; breaks off "pigs" from "sows" (secondary channels between pigs in bed) by hitting with sledge hammer; breaks sows and runners (main channels from furnace) into convenient pieces which metal is still in bed and hot; sometimes also removes pigs from bed; breaking is usually done by machinery, if done when metal is cold.

breaker, *cinder* (blast furnace); (i) breaks up slag, with hammer, on bench, so that it is to be sold as a by-product; (ii) shovels slag into hopper of crushing machine.

breaker, *dross*; *cleanser* (pig iron), *breaker-up*; breaks slag on to sow (iron in secondary channel between pigs) and knocks off sand with hammer, or saw swings on sling and after iron has cooled.

breaker, *ironstone*, *see breaker*, *mine*.

breaker, *limestone* (blast furnace); (i) shovels limestone into hopper of machine which breaks up limestone for blast furnace; (ii) (older method) breaks limestone by hand with hammer.

breaker, *manganese*; breaks up manganese with a hammer into pieces of suitable size for use in manganese steel manufacture.

breaker, *mine*; *ironstone breaker*; breaks ironstone, before it goes to roasting kiln or heating furnace, with sledge hammer.

breaker, *ore*; *iron ore breaker*, *see stamper*, *ore*.

breaker (padding), *metal breaker*, *pig breaker*, *pig iron breaker*; breaks pig iron and scrap iron for

chain maker (cycle): an assembler q.v. who puts together hubs and studs of cycle chains, using riveting machine operated by foot treadle.
chain puller: pulls forward four short chains hanging from crane over casting pit, and places them in position ready for pitman (278).
chisel setter (278), or for setter (278) q.v.
chain worker (cycle), **cycle chain worker**: general terms for workers operating various machines producing rollers driving chains for cycles, includes chain making machine (254), chain maker (cycle), stud reamer, stretcher, slackener q.v.
charcoal sifter: sifts and prepares charcoal for cementation process in puddling, by throwing with shovel against screen.

char filler (iron mine, iron works): fills wagons, trucks, etc., with calcined ironstone, using shovel.

charge man (copper smelting): *feeder (copper smelting)*; charges calcined furnace, or cupola, by shovelling in copper ore, coke and flux (lime, etc.) under direction of cupola furnaceman (copper smelting) (171) q.v.

charge man (steel): fluxes converter, flux dust discharger; charges calcined zinc ore or concentrates into retorts for smelting; draws out residues from retorts, and prepares them for re-charging; usually there are four or five charge men in each furnace; in some zinc smelting works, charging is now done mechanically.

charge mixer (sine): weighs charges (binder, calcine, anthracite, salt, etc.) and loads into mixer machine and tips in contents; controls levers of machine which thoroughly mixes materials ready for distilling furnace, and passes charge out on to conveyor.

charge putter-up: piles up near heating furnace puddled bars ready to be rolled into finished bars.

charger, blast furnace charger: furnace charger; furnace sifter, shaker, tap filter, tap man; works on gantry at top of blast furnace, receives trucks of coke, iron ore and limestone on lift, pushes them to edge of bell top of blast furnace on rails laid for this purpose and tips contents on to bell; lowers bell by moving lever to discharge mixed coke, ore and lime into furnace, and is responsible for keeping bell clear; *blastmaster*; cf. *blastman* (160).

charger, flux dust, see *charge man* (zinc).

charger, ore, see *carrier* (lead ore).

charger, second hand, see *helper, charger*.

charger, spare (blast furnace): acts as charger q.v. in absence of regular charger; usually a settler or filler q.v. and so employed when not acting for charger.

charge tube: brass tube charger; *runner*; this groove along butt joints of tubes, used for molten lead, made with a mixture of borax and resin, ready for brazing, using a small scoop.

charge taker (iron and steel rolling): (i) wheels material prepared by charge putter-up (278) q.v. to furnace platform; this is done mechanically in big modern works.

(ii) see *weigher*.
charge taker (puddling): pushes barrow or trolley laden with pig iron, scrap, and coal to puddling furnace; sometimes done by coal wheeler, metal wheeler, or metal breaker q.v.
charge taker (steel works): weighs charges on weighing platform before being charged into furnace; counts number of ingots poured from furnace and records weight, etc., in a book which is taken to works office; sometimes done by weighman q.v.

checker (cartridges), see *gauger*.

checker (cycle making), see *counter (cycles)*.

checker (tinplate), see *counter (tinplate)*.

checkweigher, checkweighman (iron and steel rolling), verifies weights of bars, sheets, plates, etc., produced at various stages of manufacture of galvannead sheet, tinplate or iron and steel rolling, for information of firm, or, where earnings depend on tonnage produced, for protection of workpeople; in this latter case, is paid by the man.

checkweighman (iron foundry): *scaleman, weight jester*; weighs on scales or weighbridge, checks, and reports weights of raw materials for entering works of charges for cupolas, and of finished castings, etc.; a dresser (183) or clerk (162) q.v. frequently does this work.

chiller, see *mould cooler*.

chipper: chips scales and roughnesses from blooms, billets, rolled iron and steel, sleepers, rolled tyres, metal parts of railways and tramway rolling stock, etc., using either a hand hammer and chisel, or a pneumatic hammer; cf. *chipper* (183); sometimes specifically designated, e.g. tyre chipper.

chipper, ingots: chips out with hand or pneumatic chisel, cracks or flaws in ingots, before they are rolled or hammered, in manufacture of steel.

chipper, ladle: ladle cleaner; chips slag from sides and lip of ladle, after previous charging of molten metal in smelting, with hammer and chisel.

chipper, pot: chips off, with a hammer, the inner lining of fireclay in a ladle, called a skull, after casting; cf. *skull breaker*.

chipper (rolling mill): a chipper q.v. chipping rough ends on rails with hammer and chisel.

cladman: (i) see *picker, clader*; (ii) in South Shropshire, see *slagger*.

clad thrower, see *tipper, slag* (blast furnace).

circle room worker: is employed in carrying, arranging, etc., in shed where finished tinplates are cut to circular shape.

clay boy (iron and steel): tempers, i.e., soaks up clay and water with hands and brings it in tin pan to ladle dauter q.v.

clay man (copper smelting): plugs up with clay, tap holes of copper blast furnace, or cupola, and drives iron bar through clay plug, when molten metal, slag, etc., is to be drawn off; usually done by furnaceman or one of the furnace helpers q.v.

cleaner: (general engineering) general term for any worker engaged in cleaning engines, machines, work-shops, etc.; sometimes specifically designated, according to kind of machine, etc., e.g. drill cleaner, hydraulic cleaner, press cleaner, rail drill cleaner, steam cleaner, stove cleaner (blast furnace), tung cleaner (tube drawing); (japanizing) cleans dirt from metal with pumice stone and sand paper in preparation for japanizing; (fin bar making) cleans and straightens up finished tin bars, cast-iron, etc.

cleaner, bench: removes scale, shavings, etc., from benches at rolling mill, and sweeps up generally; sometimes specifically designated, e.g. *band's bench cleaner*, *straightener bench cleaner*.

cleaner, blende, see *dresser, ore* (sine extraction).

cleaner, brass: (i) cleans brass articles by freeing them from grease, etc., by rubbing or beating, preparatory to finishing and decorative process; (ii) separates iron and steel from brass scrap by means of magnet, or attends machine which does this work.

cleaner (cycle making), **cycle cleaner**: cleans machines preparatory to their being wrapped for despatch.

cleaner, flux; **flux cleaner**: cleans flux which convey gases from blast furnaces, by pushing flux brush through tubes.

cleaner, frame; **dips cycle frame**, after polishing, in paraffin or turpentine, and hangs it in a large oven to "evaporate" grease from pores of metal, preparatory to enamelling.

cleaner, ladle, see *chipper, ladle*.

cleaner, mould (steel manufacture): removes dross and scrap from moulds after use.

cleaner, nickel shed decomposer (Mond process): strips off nickel, deposited on sides of decomposer, with hammer and chisel; discharges stripped nickel into barrow and wheels it to furnace, for re-melting.

cleaner (pig iron): (i) see *cleaner and greaser*; (ii) see *breaker, dross*.

cleaner, pit: assists pitman or mould setter (278) q.v.; cleans up and some times wheels slag from casting pits in slag works; sometimes done by *slagger* (278) q.v.

cleaner, road (blast furnace): a yard labourer who cleans up rubbish or slag which has fallen from trucks or bogies.

cleaner, scale: (i) (iron and steel rolling), see *pryer*; (ii) (puddling) removes with pneumatic chipper or with hand tools, various impurities on surface of wrought iron, after hammering and rolling processes.

cleaner, scrap: removes grease, dirt, rust, etc., from scrap metal, by washing it in tanks of soda, acid, etc., and finally in clean water.

cleaner, cleaner-up (steel manufacture): *scavenger*; rakes and scrapes up slag and steel that spills on floor of steel works, and shovels into barrow.

cleaner, tube, see *cleaner, flue*.

cleaner (wire, wire netting, wire rope): dresser (*wire setting, etc.*); dips by means of hand- or wheel-work, coils of wire in bath of hot water and lime; admits steam through valve to maintain temperature; then removes coils and dips in acid bath; removes and allows to dry in preparation for drawing.

cleaner and greaser: *cleaner (pig iron)*, assists blast engineman (300) q.v. by cleaning and helping to grease engines, etc., in iron works.

cleaner and helper (ladle): polisher (tinplate), rubber (tinplate), is employed about furnaces and tubs of tinplate works; takes greasy tinplate sheet, still hot, from racks, passes it through layer of cleaning material, and cleans and polishes three with pad of sheepskin; hand cleaning is still carried on in a few works for production of better quality tin plates, cf. *dauter*; for machine cleaning, see *cleaning machine attendant, branner*.

cleaner-up (puddling furnace), see *scupper* (blast furnace).

cleaning machine attendant: attends to and feeds machine which pushes tinplate plate through cleaning material ("pink mud") with slow revolving arms; press work usually done by rigger or tinman's helper q.v. where automatic rigger are not used; *cleaning rod maker*, *removal maker*; makes rods for cleaning small areas, from cut lengths of steel wire or rod, fits thereto steel brushes, already machine made, forming a brush.

cleanser, tyre bottom: opens dust traps at bottom of tyres and clears them out.

climber (steel works): assists girder and steel erector (264) q.v. by climbing about scaffolding and girders already erected to support and guide to position ends of girders in course of erection; secures and manipulates hoisting tackle; carries and holds tools for erector.

clipper (slag iron), see *scavenger* (slag iron).

clipper, clipping press man (iron and steel stamping and drop forging): places stampings and forgings on bed of press, press and controls lever to trip the hammer and other superfluous metal.

coaster and wheeler (rolling mill), see wheeler-in (rolling mill).

coal and ashes man, cinder (puddling); general terms applied to men loading and discharging coals and removing ashes, including ashes man, coal discharger (puddling furnace), coal wheeler (puddling furnace) *q.v.* **coaster**; coats articles with composition, preparatory to enamelling, japanning or varnishing.

coil bender, see coil maker.

collar (lead extraction); coils lead wire, rod, or pipe, on drums by hand.

coller (wire making); attends machine which rolls finished wire into coils; replaces lost drums by empty ones on spindle.

collar (wire rod mill); guides thin metal rod, as it comes from last pair of hot rolls, into power-driven coiling machine, where it is coiled for subsequent easy handling; pulls each coil of rod off machine when coiled.

coiling drum driver (wire rod mill); attends to and repairs the speed of coiling drums, used in wire drawing process, by hand levers; also cleans and oils machinery.

coil maker, coilsmith; coil bender; makes finished iron and steel tubes into coils, as used in tank boilers, condensers, etc. on tubes with assistance of mandrel; draws heated tube from furnace with tongs; inserts end of tube in hole in mandrel and causes mandrel to revolve on lathe by hand lever.

coke man (copper smelting); fills Bessemer converter, used to smelt copper, with glowing coke, to heat converter before charge is introduced.

coke man, coker (galvanized sheet); unloads and wheels coke to galvanizing pots or buns; tends fire.

coke man, coker (rolling mill); breaks up coke in coke breaking machine and wheels it in a barrow to furnace pits.

coke wheeler (chain and anchor forging), see filler, hearth.

cold bench man; a leader *q.v.* who pushes rails, bars, etc., on skids to trucks, and loads trucks in iron and steel rolling mill.

cold coatcher (iron and steel rolling), see wheeler, cold roll (iron and steel rolling and tinplate mills).

cold roll attendant (iron and steel rolling or tinplate mills); cold roll boy, cold roll catcher, cold roll girl, cold roll feeder (iron and steel rolling); sits in front of pair of rolls (handled train of rolls) with pack of steel sheets resting partly on his knees, and partly on a guide fixed between standards, and feeds plates, one by one, to rolls, in quick succession; when employed on single train of rolls, carries plates from back to front of the train to ensure that plates pass through rolls three times; mechanical conveyors are sometimes used to convey plates from back of one pair of rolls to front of another pair; (steel works) also greases necks of rolls where they tend to get hot.

cold roll behinder, cold roll coatcher (galvanized sheet), a coatcher (178) *q.v.* who receives sheets as they come from cold rolls and either passes them back to rollerman (178) *q.v.*, or when not to be re-coiled, piles them on floor or on stand.

cold roll boy (iron and steel rolling); (i) see cold roll attendant; (ii) see cold roll catcher (iron and steel rolling).

cold roll catcher (iron and steel rolling); cold roll boy, cold roll picker-off, picker-up; catches plates as they are ejected from cold rolls and passes them on to next line or rolls, or places them on "hogies" or trucks for removal.

cold roll catcher, cold roll girl (tinplate), see cold roll attendant.

cold roll rougher, cold roll temper (iron and steel rolling), see cold roll attendant.

cold roll worker; general term for workers in a cold rolling mill, *q.v.* cold roll attendant, greaser, rougher, wheeler *q.v.*

collector of parts; collects finished parts of machines, *e.g.*, sewing machines, for transmission to store, or marks quantities of parts for use *q.v.*; work is sometimes done by storekeeper (341) *q.v.*

colourer (metal capsules), capsule colourer; places capsule in chuck of lathe, starts lathe and applies colour with a brush to outside of revolving capsule.

colourer (steel pens); colours ground and out pen nibs by heating them in a rotating cylindrical vessel, placed over a furnace; removes nibs when desired blue tint has been reached.

colourer, tin foil; (i) applies coloured lacquer to tin foil with a brush by hand; (ii) (machine process) places spool of tin foil on holder of machine and guides end of foil through rollers; keeps lacquer tank filled; controls speed of machine by levers; removes lacquered foil from rewinding spindle.

compo man, composition mixer, see grinder, compo.

concretor's steel man; assists concretor (379) *q.v.*, in fixing into position steel foundations on which concreting is to be done.

contractor (iron stone burning, mine burning); contracts with iron making firm or with furnace keeper (171) *q.v.* to produce definite quantity of castings from stone for charging into blast furnace; is in charge of kilns in which iron stone is burnt, and of men engaged thereon, *i.e.*, mine filler, hoist man, charger *q.v.*; assists in charging or firing as required.

cooler (copper rolling); pulls copper sheet away from roll by hand with tongs, along floor and slides it into tank of cold water; pulls sheet out again and piles on trolley.

copper rivet maker; feeds copper wire or rod to automatic rivet making machine.

copper cutting machinist, copper cutting operator, see lead coremaker; cf. bullet machinist.

cornerer (log iron); clipper; feeds log belt bars into semi-automatic machine which cuts corners off, shapes them; each locality has its traditional shape of heel iron.

cornerer (tin boxes, etc.), see notcher (tin boxes, etc.).

corrugator lad; assists hold-up and corrugator's helper *q.v.* at corrugating press of galvanne sheet mill, by holding other side of sheet.

counter (cycles); checker (cycle making); checks number of bolts, rivets and similar small cycle parts before distribution for use in cycle building.

counter, piecework counter (ship-building); keeps record of amount of work done on piecework, *e.g.*, rivets put in by riveters, holes drilled or cut by drillers or hole borers, length of seams caulked by caulkers, etc.

counter, counter-out (tinplate manufacture); checker, reckoner; counts arrangements in separate packs the number of tinplates to be packed in each box.

counter's paint boy, piecework counter's paint boy; works with and under direction of rivet counter (256) *q.v.*, and marks, with paint, work recorded by counter.

cover mounter; mounts fittings, *i.e.*, handles, locks, catches, etc., on covers of sewing machines, by screwing up nuts with spanner, boring holes with Bradawl and driving screws, etc.

crane boy, crane lad; (i) controls levers of small auxiliary power-driven cranes used for simple lifting in steel works, *e.g.*, lifting scrap, slag, coal, barries; (ii) (puddling) assists crane older *q.v.* or crane-man (304) *q.v.* by cleaning crane with cotton waste, signalling to crane-man, etc.

crewer; *straw*; operates crewer machine that curves the part of tongue which is fixed to spring clips and harness buckles, feeds tongue into notches of revolving disc which brings tongue under automatic hammer.

crop lad; drags hot crop end, *i.e.*, short piece left after measured lengths have been cut from bar, of non and steel bars away from shears, or hot saw, with tongs.

crop man, see scrap man (iron and steel rolling).

cropper, angle; angle chopper; places angle-irons, used in making boilers and tanks, against guide on bed of a cropping or chipping machine; cuts off measured lengths by depressing lever of machine.

cropper (bolts, nuts and rivets); cutter-off, shaver, shavers, cuts off end of bolt to length, shearing or cropping in machine, before end is pointed; sets gauge to length required and operates machine with foot or hand lever.

cropper (files), see snapper.

cropper, forge, see cropper (iron and steel rolling).

cropper (general engineering), see shaver.

cropper (iron and steel rolling); *large cropper*, multi cropper and shaver; a shaver *q.v.* or a sawyer (238) *q.v.* who cuts off badly shaped ends of finished bars of iron or steel after rolling.

crush, see crower.

crusher, blende; controls levers of bell mill for crushing and grinding blende (zinc sulphide) in process of zinc extracting; watches that automatic feed does not get choked and that conveyor is working smoothly.

crusher, salamine, see for crusher, blende.

crusher, crusher man (copper smelting); shovels copper ore and limestone into hopper of machine which crushes it preparatory to grinding and recharging; sometimes crushes slag in same way.

cupola charger (Bessemer steel); wheels fuel, raw material and scrap from bust and tips them on to platform, whence they are shovelled into cupola, *i.e.*, furnace in which iron is melted; more usually operates levers of machinery which automatically charges cupolas with materials from boppers; sometimes specifically designated, *e.g.*, spiced cupola charger, spiced charger.

cupola charger, nickel; tips or shovels melted ore or nickel matte (partially refined ore), coke and limestone into cupola through charging door.

cupola man (steel works); general term for one who does any unskilled work round cupola, such as loading bust, charging cupola, tapping slag, etc.; includes cupola charger, leader, wheeler *q.v.*

curry comb maker, curry comb riveter, an assembler *q.v.* who assembles stampings, rivets and fits parts together to form complete curry combs.

curry comb varnisher; varnishes, paints, or japans curry combs by means of hand brush, or by dipping them in varnish or other covering medium; sometimes also stoves them in oven to fix and harden varnish, etc.

curver; passes corrugated sheets backward and forward between rollers of machine in which they are curved to a specific radius, according as they are required, for example, for barn or shed roofs, or for other purposes, usually works to given curve specified by foreman.

curver's assistant; assists curver *q.v.* in building up sheets to machine and stacking when bent.

cutter, cutter-off; (i) attends guillotine, power press, power shears, or other machine for cutting metal, e.g., cutlery blades from sheet steel, steel tubes for cycles, bars for use in tinplate trade, etc.; feeds work into machine; sets gauge against which work is pushed or held; operates machine by foot pedal or hand lever, cf. cutting machine worker shearer; (ii) (saw-ware), see shearer; (iii) (rolling mill), see shearer; (iv) (tin boxes), sets guillotine hand; sometimes specifically designated, e.g., tube cutter (cycles), brass rule cutter, norm cutter (rule), rule cutter, pin cutter (rule), rail cutter, cutter-off (belts), gas tube cutter, cutter-off, steel sheet cutter (pen), tin foil cutter, wire cutter (needles).

cutter, bar; bar and pin cutter (rail and tack making), cold bar cutter (iron and steel rolling); bar shearer (iron and steel rolling, tinplate), bar shearer, cutter-off (puddling); passes metal into shearing machine, in which they are cut into short lengths; sets adjustable measuring gauge against which work is held; operation performed in galvanised sheet manufacture, iron and steel rolling, rail and tack making, puddling, tinplate.

cutter, billet; billet breaker (iron and steel rolling, puddling), cutter (wire netting), cutter-down (rolling mill); a cutter g.v. who cuts billets. In shearing machine, into suitable sizes for re-rolling into bars in iron and steel rolling, for rolling into bars and rods in wire making, etc. and in puddling, for convenience in handling, transport, etc.; in rolling mills, work usually done by gullotine engineers g.v.

cutter, link; a shearer g.v. who cuts from rod steel or iron, on shearing or other similar machine; links which are to be made into links; in large coil chain works, cutting is done by link bender (190) g.v.

cutter, rivet; a shearer g.v. who cuts hot steel bars into lengths in automatic machine.

cutter, scrap; scrap metal cutter; (i) a shearer g.v. who cuts scrap metal into sizes convenient for handling; (ii) (iron and steel rolling) scrapper (Scotland, sheet); assists shearer g.v. in cutting up scrap; in tin plate trade, work is usually done by scrap handler g.v.

cutter, side (tinplate); a shearer g.v. engaged at double shears, which cut edges of folded sheets in rolling of tin plate.

cutter, split shot; feeds lead shot into hopper of automatic splitting machine; watches machine for proper working.

cutter, tea lead; cuts lead sheet into measured sizes with hot shears for lining tea chests; usually done by packing case liner (364) g.v.

cutter, teal; cuts teal pieces from iron, steel or other metal, in test room, using either planing machine or saw, both power-driven.

cutter (wire netting, rope, etc.), see cutter, billet.

cutter-down, see cutter, billet.

cutter girl (sorens), see nlekor.

cutter-off (bolts, nuts and rivets), see cropper (bolts, nuts and rivets).

cutter-off (slag iron); a shearer g.v. who cuts bar iron to length required for front or heel slag iron.

cutter-off (puddling), see enter, bar.
cutter-out, edge tool; a shearer g.v. who feeds and operates shearing machine which cuts out blanks of edge tools, ready for forging (190) g.v.; sometimes specifically designated, e.g., hot cutter-out, scribble cutter-out, speed and shovel cutter-out.

cutter-up, holler cutter-up; a scrap breaker g.v. who uses hammer and chisel, or in some cases oxy-acetylene apparatus to cut or break up old hollers.

cutter-up (files); steel manager; a shearer g.v. who cuts steel bars into lengths or multiples of file blanks. With power-driven shearing machine.

cutting machine attendant, cutting machine worker (general engineering); operates a gullotine or a machine which cuts material into lengths by means of cutting tool or hot saw; fixes work in machine; sets gauge against which work is pushed or fixed, manipulates foot treadle or hand lever; sometimes specifically designated, e.g., pin cutting machine attendant,

cycle hand, cycle worker; general terms for unskilled and semi-skilled workers in cycle factories, including assembler, canneller (211), polisher (241) g.v.

dampier, bill damper (blast furnace); puts bile hilly, i.e. flat over, round ball (a kind of funnel covering top of furnace) between charging shifts to prevent escape of gas from furnace; also done by charger or by top sweeper g.v.

denter (enamel sign), see bruiser.

depot man, see hunkermann.

dipper, bolt; bolt offer; dips bolts in oil after last finishing operation in bolt making, to prevent rusting; sets them in sieve to drain.

dipper (general engineering); immerses castings (usually brass) in hot acid solution to remove grease, scale, sand and discoloration, and then sets them in hot water.

dipper (sleeper mill), sleeper mill dipper; immerses sleeper, after it has been pressed and punched, and while still hot, in a mixture of tar oils, as a preservative against rust; work now done largely by power-driven endless chain.

dipper (tin boxes, cansisters, etc.); dips side seams and ends of this in a solution of hydrochloric acid and then in small bath of molten solder; wipes plates clean with piece of tow.

dipper-in (reed making); dips top and bottom staves of textile reed in tub of molten pitch, after reed leaves reed maker (278) g.v.

dipper in tar, iron huddle dipper, or for dipper (sleeper mill).

discharger, bar; (i) (iron and steel rolling) bar unloader; a bar bank man g.v. who unloads bars from truck in railway siding; often also loads, see bar loader (iron and steel rolling),

(ii) (tinplate) bar carrier (tinplate); unloads bars from trucks, in railway siding of tinplate works, and carries them to bar shears or from shears to furnace; is attached to bar cutter's gang; cf. bar cutter's helper.

discharger, coal and ashes (copper smelting); unloads coal, by hand shovels, from trucks or barges in yard of copper extracting and refining works, and loads trucks or barges with ashes, slag, etc.

discharger, coal; coal unloader; unloads coal with shovel from railway trucks or barges, for use in puddling furnaces or steel works.

discharger, flux dust, see charge man (zinc).

discharger, iron, see iron checker's assistant.

discharger, ore; raw material discharger; unloads, by hand, raw material, i.e., ore, coke, coal, flux, etc., used in lead or copper extraction and refining works.

discharger (tinplate), see wholser.

discharge man (copper works); empties wagons or does any odd job about copper works.

distillery hand (lead manufacture); scrubs distiller (171) g.v. in handling alloy of lead, also and silver; attends to graphic furnace under direction of distiller, and assists in holding of residual alloy for casting.

divider, divider of fonts; separates type received from casting machine and classifies into fonts, ready for use.

dogger, dogger-on; stoker (blast furnace, puddle furnace); groups material with pair of long-handled tongs or dogs suspended from overhead travelling crane; guides dogs into soaking pit, placing ingots there and removing them therefrom; picks up top ends sheared off blooms in rolling mill, and arranges, bars, blooms, etc., into furnaces; sometimes specifically designated, e.g., dogger-on ingots.

dogger-up, steel tube drawer's dogger-up; hook worker (tubes), unscorer; adjusts teeth or hooks of wagon (or dog) to endless chain on draw bench, by which tube is drawn through die; follows wagon as it moves and brings it back to tube drawer (260) g.v., who is in charge of draw bench.

door boy (puddling mill, rolling mill, tube mill, steel works); door boy (puddling tube mill); dogger-up (rolling mill), pull-up (steel works, sheet); pulls levers or chains which open and close furnace doors for charging, drawing or inspection of furnace; watches under direction of furnaceman (171) g.v.

door lad (chain making); draws out from furnace chain links for welder (180) g.v. and stokes forge fire.

doorman (farrier's); assists farrier (190) g.v. by removing old horseshoes, trimming hoofs, may act as strapper; puts fresh studs in shoes in winter time.

door man, furnace door man; feeds fire, in forging mill; heats iron, and draws it from fire with tongs, in state fit for welding.

double holder (rolling mill); assists double (178) g.v. by gripping shafts or chains with double holder, to hold steadily while double completes doubling.

double marker (Stafs. term); assists plate marker g.v. when handling large sheets, and marks with scribe or chalk under his direction; helps to support sheets afterwards for shearer g.v.

double's holder (galvanised sheets), see for double holder (rolling mill).

dragger-down, see hooker-out.

dragger-out (sheet mills), see bar dragger.

dragger, bar (galvanised sheet, tinplate), see bar dragger.

dragger, bar (iron and steel rolling); dragger-out, puller-out (iron and steel rolling), runner-out; a furnace man's helper g.v. in sheet rolling mill, attends to bars from furnace; draws bars from furnace and packs of sheets from sheet furnace to rolls, with tongs.

dragger, door (plate mill), see for door man.

dragger-down (rolling mill); holds; puts down to rolls with tongs, hot billets from soaking pit or furnace.

dragger-out, see dragger, bar (iron and steel rolling).

dresser, bob; cleans and prepares bob, or polishing pads for use by buffers and polishers (238) g.v.; scrapes off old paste and smears on fresh paste.

dresser, and see notcher (tubes).

dresser (files); (i) see layer-on (files); (ii) see stripper (files).

dresser (metal trades); (i) see fraser; (ii) removes roughness from castings, rolled rails, steel plates, etc. by shipping with hammer and chisel (see chipper) or by holding against emery wheel or by grinding with portable wheel; sometimes specifically designated, e.g., centre dresser, rail dresser, tyre dresser, wheel centre dresser, wheel dresser.

dresser, ore (lead extraction); feeds, by hand shovelling, and attends to plant which crushes and screens lead ore, preparatory to calcining and smelting.

dresser ore (zinc extraction); blends cleaner, blends screener, calcine screener, zinc picker; stands by revolving table at side of travelling belt containing sump ore (blende or calumne) and picks out waste material.

dresser, tube; (i) dresses, or files, joints of brazed tubes, to remove superfluous solder, before tube is drawn to required size; (ii) corrects minor defects in tubes, by filing or otherwise, on completed manufacture; sometimes specially designated, e.g., brass tube dresser.

dresser (wire netting, rope, etc.), see cleaner (wire).

dresser and sizer, stamp (tubes); dresses or cleans bells (after hole in top has been stamped or pressed out) by removing scum adhering thereto, with a file; measures hole (through which tube passes) with micrometer and hand file to size required.

drier, blende; shovels blende (zinc sulphide ore) on to conveyor and attends to furnace which dries it after dressing, preparatory to crushing and grinding.

drier, calumne, as for drier, blende.

drier (hollow-ware), see brusher-off (hollow-ware).

drier-down, see take-down.

drifter; places hollow rollers on projecting pins of cycle chains.

dresser, dress mill, dress miller; recovers spelter (zinc) from dress and from zinc oxide by resmelting; shovels charge in furnace, and taps off molten metal.

dryer; controls and operates drying stove, or hot blast, at finishing and of galvanizing machine in which sheets are dried before the finish on conveyor or on plate in bagasse.

dryer, sand, see sand calciner.

duster (unbake, canisters etc.), see wiper, box.

duster, dusting machine attendant (tinplate manufacture); smelter in firehouse, wiper; controls levers of machine which automatically dries and cleans tinplate received from water bath; shovels dusting powder, composed partly of sand, into hopper of machine; may clean and polish tinplate by hand with a shapkin.

sager (tin boxes); (i) see box folder; (ii) see tinplate (tin box) edgeway maker; feeds front clog iron into machine, which automatically shapes them; usually done by turner (clog iron) (278) g.v.

electric tinner, see pin plater.

endar (screws), see pointer (bolts, screws).

ender-up, ending mechanist (bolts); passes bolts by hand into receiving chuck of an automatic machine which chambers ends of bolts; controls machine by means of foot or hand levers; cf. chamierer (200).

evener-up (needles), see hander (needles).

extractor man (iron and steel tubes); extracts manure from sockets of welding machine; usually done by fitter (210) g.v.

eye maker, steel eye maker (pinnae); looper; makes small eyes, or loops, of steel wire and of wire strings to hold there on to rest pins, using pair of pincers and a small machine.

faggotter, faggot maker (metal trades); iron binder, bandler (iron and steel rolling, tinplate), pier (puddling), scrap box (polishing steel), scrap pier (rolling), steel manufacturer; is employed in different metal trades, e.g., puddling, rolling, steel manufacture, tinplate and galvanizing sheet trades, in making-up sheathing and other scrap metal into bundles, piles, or "faggots," which he binds with

wire in preparation for the melting down and melting of such scrap; cf. bandler, sheet.

farrier's mate; horse shoe's mate; acts as ironer, g.v. to a farrier or booter (189) g.v.; may also act as striker (189) g.v.

fasher (groffed blade); removes rough edges or surplus metal of stamped or pressed parts of cutlery, either by hand, with file, by holding against revolving emery wheel, or by passing under shunting disc of power press.

feeder, ball mill (copper rolling); shovels casting shop ashes into ball mill, in process of recovering metal; shovels crushed ashes into harrows or watches smooth working of conveyor.

feeder, bar feeder (bolts, nuts and rivets); puts bars or short lengths of prepared metal into automatic or semi-automatic machine, which turns or threads them into bolts or nuts.

feeder, coke; shovels coke fuel into blast furnace; work usually done by charge men.

feeder (copper smelting), see charge men (copper smelting).

feeder, drill; rail drill feeder (rail mill); lifts rail on to table of multiple or ordinary drilling machine and feeds it into machine, ready for hole holes to be drilled; generally done by rail hand men g.v.

feeder, furnace, see fireman.

feeder (galvanizing); (i) (sheet) putter-in; feeds sheets one by one into rolls of galvanizing pot under supervision of dipper (234) g.v.; (ii) (tin) metal goods carrier or pushes goods on track from water bath to dipper's table.

feeder (iron and steel tubes), see guider.

feeder, muffle (iron and steel stamping and drop forging), as for muffle-man (iron foundry).

feeder, nail; machine feeder (nails). nail machine feeder; assists nail machine tender (275) g.v. by feeding a hand or self fed automatic nail making machine with sheet iron and iron wire; either places strip of metal between jaws of gripping device on long wooden handle, and turns strip over each time cutter descends, so that tapered nails are cut economically, or fits long strip of metal (as wide as length of nail being produced) into self-adjusting barrel; starts machine by hand lever and watches smooth working of barrel as it feeds and reverses strip under cutting knife; refits barrel as strip is cut up; sometimes specially designated, e.g., hand feeder, self feeder, cut nail machine feeder.

feeder, nickel shed (Mond process); shovels or otherwise calcined nickel ore into reducing towers, where it is reduced by water gas to finely divided nickel.

feeder, rail planer; lifts rails, after rolling, on to table of planing machine, and generally assists rail planer (200) g.v.

feeder, straightener (rolling mill); passes and guides iron and steel sheets or plates into straightening machine, or lifts steel rails, etc., on to bed of gag press; sometimes specially designated, e.g., rail straightener feeder.

feeder, tack; tacker, tack mender; watches machine which makes tackers automatically and stops it when necessary; replaces empty by full spools of iron wire, cleans and oils working parts of machine.

fettler (metal trades), see framer.

fettler (puddling), see blow billyer.

filler; shovels raw material for metal furnaces, etc., into trucks, tubs, hoppers or wheelbarrows for conveyance from wharf, damp crusher, etc., to furnace or kiln, weighing machines or tables, etc.; sometimes specifically designated, e.g., harrow filler, bottom filler, box filler (colored iron), iron filler, cinder filler, coal filler, coke filler, cradle filler (tinplate), damping filler, fillet filler (card

clothing), furnace filler, basomite filler, lime filler, limestone filler, mmo filler (ironworks), ore filler, raw material filler, small filler (iron and steel), slag filler, tank filler (pig iron), stone filler (ironworks), top filler.

filler, coke (pig iron); coke runner; shovels coke from coke depot into harrows, and wheels in to weighing machines; usually done by coke wheelers (see iron, g.v.).

filler, furnace (blast furnace), see charger (blast furnace).

filler, hearth; coke wheeler (boilers and anchor forging); a labourer g.v. in chain making shop, who heats metal in fire tanks and malleable, manipulating it with tongs.

filler, pig; metal carrier, pig bed metal carrier; loads pigs into trucks, for removal from mould, with help of hook.

filler, rack (tinplate); fitter; places plates in racks after tinning in brassing process; work now done by rizer g.v.

filler, spere; acts as ore filler g.v. in absence of regular filler; usually an experienced furnace labourer, lime filler or coke runner g.v. and employed when not acting as ore filler.

filler, top, see charger (blast furnace).

finer; metal separator; runs or pumps oil, used in hardening or tempering shops, from oil baths into filter vat; opens and closes valve by which filtered oil runs in reservoir, cleans out oil bath.

finisher (steel); general term for worker who cleans and finishes plate after hardening, including taker again (232), scrover (209), or other g.v.

finisher (harness furniture); assembles and fits together component parts of harness furniture; files parts, if necessary; sometimes specifically designated, e.g., bit finisher, buckle finisher, spur finisher, stirrup finisher.

finisher, rail; a sawyer g.v. who cuts ends of rails square, in machine saw finisher (saw), as for harreller.

finisher (wire netting, rope, etc.); cleans and polishes wire after it has passed through but reducing die, by drawing wire by hand through emery cloth and black lead; cf. wire finisher (208).

finer, finishing hand, see framer.

fireboy; replenishes furnace fires of steel rolling mill with fuel.

fireman, fire, furnace fireman; furnace feeder, furnace stoker, stoker; feeds with fuel, by shovelling, etc., furnaces, e.g., steel furnaces, rolling mill furnaces, annealing, galvanizing and lead extracting furnaces, and other furnaces employed in various metal trades, as distinct from boiler and locomotive furnaces (cf. fireman (701) and (661)); usually works under direction of furnaceman (171) g.v.; sometimes specifically designated, e.g., stoker, fireman, annealing furnace fireman, malleable iron oven fireman, sleeper mill fireman.

fireman (forging); keeps smithy fire replenished; heats metal on fire; manipulates it with tongs on anvil, under blows of forger (149) g.v. or of forger (189) g.v., until it assumes shape required; sometimes also does hammering, cf. striker (189).

fireman, oven; stoker (general iron-works); stokes fires heating ovens in which dry sand moulds and cores are baked; cf. muffle-man.

fireman (shipbuilding); stoker (shipbuilding); attends to furnaces used by frame turners, plate benders (222) g.v. in shipyard.

firer (puddling); acts as assistant or underhand to puddler or to ball furnace man (172) g.v. where furnace is of coal fired; also gets furnace heated at week-end ready for re-start; cf. underhand ball furnace man.

flrer, hall furnace, see furnaceman, underhand hall.

fitter, syphon; fits spring inside syphon cap and puts valve in position, using hand tools at bench.

fitter-up (sheet metal goods); fits rings and bottoms of tin canisters for seamer (254) g.v.

flogger's assistant; assists in unskilled part of work of flogger (190) g.v., such as holding one end of tube while other end is being expanded.

flossener (slag iron); see flattener.

flattener (slag iron); see flattener.

flattener (slag iron); see flattener.

flattener (slag iron); see flattener.

flattener (slag iron); see flattener.

flattener (slag iron); see flattener.

flattener (slag iron); see flattener.

flattener (slag iron); see flattener.

flattener (slag iron); see flattener.

flattener (slag iron); see flattener.

flattener (slag iron); see flattener.

flattener (slag iron); see flattener.

flattener (slag iron); see flattener.

flattener (slag iron); see flattener.

flattener (slag iron); see flattener.

flattener (slag iron); see flattener.

a gag press for straightening rails, by operating lever of power press under his directions.

galvanizer's assistant; places articles near galvanizing tank in readiness for galvanizing (234) g.v.

gauge, operator gauge; checker (cartridge); tests accuracy of machine work on cartridge cases by passing cartridge through one or more hand or machine gauges; cf. viewer (199); sometimes specifically designates, e.g., bullet gauge, cartridge clip gauge.

getter-off (puddling furnace); assists puddler (179) g.v. to remove slag from ladle to iron truck after puddling, by means of dog grips or tongs.

glider (motor radiator); assembles radiator block by threading brass tubes through holes in iron cross pieces; adjusts the whole, ready for fitting by dipper.

glazer's assistant; assistant glazer, backer (saw); stands behind and receives hand or long saw as it comes from glazer, in saw making.

glazier's turner-out (rolling stock); pulls glazier's wheel, see glazier (190), with tongs from furnace, and bows it along, while hot, to press; also does any striking that may be required.

grainman, grater (steel works); cleans fire grates of gas producers, with rake, hammer and chipping tools.

grease boiler; (i) (in finetooth) melts down palm oil, ready for tinning pots; (ii) (in tin sheet mill) melts down waste grease from roll necks of mills and cold rolls, and drains away from dirt and particles of metal so that grease can be used again.

greaser; aids or greases moving parts of machinery, shafting, gearing, etc., and replenishes oil and grease cups, and lubricators.

greaser, cold roll greaser (iron and steel rolling, tinplate); greases cold rolls, particularly at necks, where they get very hot; in steel sheet works, usually done by cold roll attendant g.v.

greaser (galvanized sheet), see oiler (general engineering).

greaser (iron and steel rolling), see hot bank boy.

greaser (tinbox, canister, etc., making); (i) smears grease over decorated tin plates before they are stamped out; (ii) see axle hammer lad.

greaseless machinist; hand feeds and manipulates levers of automatic or semi-automatic machines which shape, polish, drill, etc., grenade castings.

greaseless turner; a greaseless machinist g.v. working at an automatic machine used for turning and boring hand and rifle grenades, bombs, etc.; work usually done by capstan lathe hand (200) g.v.

grinder, compo; composition grinder; compo man, composition mixer; feeds and attends pug mill, or other grinding machine, which grinds and mixes refractory materials, i.e., ganister, silica, dolomite, moulder's composition, to form composition or "compo" used for lining furnaces, anamorphs or moulds. cf. grinder, sand.

grinder, dolomite, as for grinder, compo.

grinder, sand (steel works); feeds, operates and controls machine which grinds sand after it has been calcined, see sand calciner; usually done by composition grinder g.v.

gripper (edge tool), edge tool gripper; edge tool handler, lifter, handler; (i) (knives, etc.) prepares scales and bits of wood, horn, etc., by sawing slit or otherwise shaping them for edge tool handles or grips, and rivets them to tang; (ii) (chisel, etc.) bores hole in wooden or horn handle, inserts tang, and fixes it with resin or cement.

gripper's assistant, see matcher-on.

groover (wooden); feeds and operates a kick stamp or rolling machine, which makes hollow part on sides of sewing machine needles.

groover (tinbox, canister, etc., making); loader, places cut and folded sheet tin on block of grooving machine; operates lever to cause machine to groove edges and join up seam of body.

guide; feeder (iron and steel tubes), putter-in (iron and steel rolling); guides blooms and tubes into various rolling mills by means of long steel rods and tongs.

gullotine engineman (rolling mill), gullotine man; shear driver; controls levers of gullotine shears, normally motor-driven, which cut up steel sheets.

gullotine hand, gullotine worker gullotine driver (fin cores, knife and; cuts tinplate, steel brass, etc., to size required by means of gullotine; sets gauge and guides, places work against guides under knife and actuates knife by foot or hand lever; sometimes specifically designated, e.g. lead plate gullotine.

gun prover, see barrel prover.

haffer, see gripper (edge tool).

hair pin machinist; attends and feeds with spools of wire, automatic bending and finishing machine which makes hair pins from thin steel wire.

hammer boy, hammer lad; pulls lever to operate power hammer, under direction of forge hammer driver (190) g.v.; sometimes specifically designated, e.g. axle hammer lad.

hammerman's assistant; assists forge hammer man (190) g.v. by heating metal in fire to forging temperature, withdrawing with tongs and/or crane, handling special tools, moving forging about, etc.

handler (needles); ever-up; sorts, according to length, needles that have been mixed up together in processes of scouring and glazing; arranges heap of finished needles in rows; holds one end of needles with palm of left hand; presses piece of rag, held on forefinger of right hand, on other end of needles, and withdraws all needles having points projecting into rag; alternatively arranges needles in rows on glass slide and, using a square section ruler, pushes longer needles over edge into receiving trays.

handler (agricultural tools); shaves down handles with spearsaw to fit tool, hovers hole in wood and rivets face with hand hammer, fits tang of tool into wooden handle and hammers home; sometimes specifically designated, e.g. bill hook handler, sickle handler.

handler (edge tool), edge tool handler, see gripper (edge tool).

handler (tinbox, saw handlers); punches holes in saw, corresponding with holes in handle, with hand fly press, and secures handle to blade with screws.

hand machinist; operates small hand power machine sometimes used for cutting or stamping metal.

hand reamer; uses a hand reamer to clean out bore, holes, etc., from castings or other parts of sewing machines; work generally done by fitter (216), by turner (200), or by assembler g.v.

hauler, bumper tip; tips wagons on slag heap; levels off heap with shovel.

hanker (rolling mill), see lifter-up (rolling mill).

hardener's assistant (cutlery); puller-out, rubber; assists hardener (1220) g.v. by removing cutlery, e.g. bayonet blades, from quenching bath of oil; rubs blades in sawdust to remove adhering oil.

hayband maker, stretcher (hayband making); cuts wire to convenient lengths for making haybands with hand pliers or in machine cutter; straightens or stretches it between fixed vices.

healer, cold, see rivet machine minder.

header, needle header; passes needles by hand into automatic machine which grinds smooth any roughness round head after stamping process.

heater's assistant; assists heater (171) g.v. in wire making, by charging furnace with billets, and keeping it at correct temperature, where this is not done by heater.

heaver-out, heaver-over (puddling furnace); assists puddler (173) g.v. by drawing out from puddling furnace, with tongs, a ball of iron twisted on a metal bar by puddler. heaver-out, wheel; assists tyre furnaceman (278) g.v. by withdrawing heated tyre from furnace with long iron bar and tongs.

heaver-over (galvanised sheet); assists inspector (278) g.v. in examination of heavy sheets, after they have been galvanised, by turning and lifting them.

helper, annealer's; feeds and cleans out fire and assists annealer (220) g.v. in charging annealing furnace, in flintplate and galvanised sheet manufacture, also places sand round pots and boxes used to protect plates in annealing, and puts clay on top for same purpose.

helper, assorter's; assists assorter or inspector (278) g.v. in examination of heavy sheets, after galvanising, by turning and lifting them about.

helper, ball furnace, see furnaceman, underball ball.

helper, bar cutter's (galvanised sheet); assists bar cutter g.v. in attending or feeding, shearing machine; fetches bars, removes cut lengths, etc.; see underbar, bar, or wheeler, bar.

helper, blacksmith's; assists blacksmith (150) g.v. by performing manual labouring work, holding up, carrying, soaking fire, working bellows, etc.; sometimes also acts as blacksmith's striker (190) g.v.

helper, blast helper, see blast furnace hand.

helper (boiler yard); assists boiler maker (222) g.v. generally; brings boiler plates to maker, by carrying or pushing on truck; removes finished boilers on truck or by means of chains and tackle of overhead crane; wheels up in barrow fuel for rivet heater's forge, etc.

helper, charger's (iron, steel, copper, nickel); second hand charger; a wheeler g.v. wheeling ore in barrow from dump to furnace; generally assists charger or charge putter-up g.v.

helper, clay mixer's; assists clay mixer (104) g.v.; shovels materials into machine and discharges finished clay, in zinc extracting works.

helper, corrugator's; takes-out; stands behind corrugating machine and receives sheets as they come from machine; piles them by side of machine, in readiness for removal to warehouse.

helper, forge; does general labouring work in forge, as for blacksmith's helper; is often a spare hand worker, able to take place of any regular man who is absent, e.g., hammerman's assistant, slinger g.v.

helper (forging), angle iron smith's helper, see backhand.

helper, furnace; furnaceman's helper; furnace attendant, slinger's helper (furnacework); assists furnaceman (171) g.v. in charging, firing,

discharging, etc., furnace; is employed on blast furnace (see blast furnace hand), in copper extracting, lead extracting, steel manufacture, tube and pipe making, and in zinc extracting; cf. charge man (216).

helper, keeper's, see blast furnace hand.

helper, ladle (steel manufacture); (i) helps ladle man g.v. to move ladle about works by means of overhead crane; (ii) tempers and settles steel for ladle dealer g.v.

helper, picker's; (i) aids picker (250) g.v. generally and takes charge of picking operations during picker's absence; (ii) picking girl; an unskilled labourer who assists picker by loading and unloading sheets from cradles.

helper, pit; pitman's helper; helps pitman or mould setter (274) g.v. to secure cap or iron plate on top of mould, to spray cap with water to keep it cooling, and to adjust crane chains for lifting ingot, etc.

helper, potman's (nickel cupola); assists nickel cupola potman (275) g.v. in moving pot or ladle, usually on an overhead runway, and empties filled moulds in readiness for fresh supply.

helper (rolling mill), heater's helper; assists heater or furnaceman (171) g.v. by firing and regulating re-heating furnaces, in sheet mills, this is done by bar drawer g.v.

helper, slagger's; (i) assists slagger (278) g.v. in tapping and removing slag from furnace or pit, in case may be, of blast furnace, puddling furnace, or steel works; cleans-up and sometimes removes slag and cinders from pits, etc.; (ii) (in iron-works), see helper, furnace.

helper, straightener's, see gagger (rolling mill).

helper, tinman's; helper (flintplate), putter; general term for workers making tinman (263) g.v. and includes branner, cleaning machine attendant, water boy, and cleaner and helper (band) g.v.

helper (flintplate); (i) (in mills) assists furnaceman (171) g.v. in firing and regulating furnace and in heating plates; also assists roller (178), doubler (178), in rotation of duties according to shift; usually specially designated according to responsibility, e.g., first helper, second helper, third helper; (ii) (in tin-works) see helper, tinman's.

helper, vertical plate furnace; assists vertical man (180) g.v. with crane by which plates are placed in and removed from vertical furnace, also tends furnace fire.

hinge builder; assembles two wings of hinge, inserts pin and places hinge in hand - manipulated clamping machine to fix pin.

hinge varnisher; varnishes hinges, either by applying varnish with a brush, by dipping in a vat, or by lacquering while hot.

holder-up (i) (galvanised sheet); places blank sheets of galvanised iron or steel on table of corrugating press, adjusts each sheet so that it is corrugated properly, and holds up sheet until corrugation is complete.

(ii) (sharles) assists forger (100) g.v., forging heavy chains, by holding links or shackles firmly, with tongs; (iii) (rolling and mill shop, etc.) assists skilled machinist by holding up heavy rails, plates, etc., to drilling machine, planing machine, punching machine, etc.; sometimes specially designated, e.g., holder at drill, holder-up at plates, holder-up at punch, holder-up at shears.

holder; wet drill; operates machine which drills or punches holes in nut blanks; work now generally done by nut cutter (190) g.v.

holder-maker (tyre mill); (Orres term) assists furnaceman (171) g.v. manipulating tyre with tongs; tends furnace fire.

hooker (wire rod mill), rod hooker, wire rod mill hooker; keeps loops of wire rod, which drop into a pit between sets of rolls, straight and running freely, by means of long steel rods hooked at ends.

hooker-on, see pig bar-car.

hooker-out (wire works); dropper-down, tenger; draws out heated billets from furnace, in wire works, and passes them to wire rod roller (178) g.v. for rolling into rod, for wire drawing.

hooker-up, see breaker, dress.

hooking boy, see pulling-up boy.

hook worker (cables); (i) removes tubes of heavy cables from rolls, after welding, with a hook; (ii) see dropper-up.

hoop ironman; sorts, straightens, punches and rivets old hoop iron for re-use.

horse worker; helps forgerman (100) g.v. to manipulate heavy forgings, in forging chais and anchors, with levers, tongs and overhead chain tackle.

horse shoe's mate, see farrier's mate.

hot bench man, see bank man, hot.

hot metal guard; holds a plate or guard, when cradle and cast steel is being temed, or poured, to prevent heat and sparks from molten metal injuring workers engaged in teming or casting operations.

hub maker, cycle hub maker; spindle; assembles at bench component parts of hubs or of free wheels, i.e., spindle, hub, ball bearings, cone, filing them where necessary to make them fit; tightens up cone with spanner.

infactor; makes assemblies and fits together component parts of cycle and motor tyre inflators.

ingot man; is in charge of stock of steel ingots; weighs and checks them; paints identification marks on them, and gets them ready for heating in preparation for rolling.

ingot setter; sets or stacks steel ingots in readiness for next operation, e.g. reheating, or for transit.

inspector (chains); tests measurements of cycle links against standard gauge, and measurements of holes in links, against standard rod; usually done by operators at successive stages of cycle chain making.

iron binder, see faggoter.

iron checker's assistant, iron fighter; iron charger, iron shifter, iron sorter (Clyde) iron shifter; assists iron checker (182) g.v. in receiving and moving material about in yard.

iron shifter, iron stower, see iron checker's assistant.

japanner (pint); checks lampers paint in pans of black enamel; drains off surplus enamel, shakes pint about to induce even coating, and dries them in stoves.

jamper, jamper-over (rolling mill); is one of gang of crane men, in rolling mill, who catch hot rail in tongs and who together jump over rail, as it lies on floor, to turn it over into required position.

kettlemaker (blast furnace); (Stg.-M) charges kettle, used in acid melting. Essener persons with coke and ingredients for making-up steel, using shovel.

kicker, stamp kicker; operates old type of drop stamp with a foot trip, and makes drop stamp (190) g.v. generally; cf. stamper's mate.

kin acorter, see scortman.

knife hand, see guillotine hand.

knobber (rolling mill), see drawer-down.

labourer, general labourer; performs unskilled manual work, e.g. cleans workshops and machines, wheels materials, ore, coke, etc., to furnace, removes ash from furnace to ash-dump, lifts, carries or otherwise handles heavy metal, i.e., pig head, bars, castings, etc.; brings up raw material and carries away finished

work from machines; does odd jobs about works; often specifically designated according to duties, e.g., back side labourer, front side labourer, etc., or according to industry e.g., blast furnace labourer, boiler yard labourer, bronze labourer, machine labourer, machine shop labourer, mill labourer, mine labourer, scrap labourer, rolling mill labourer, scrap works labourer, strip mill labourer, wheel labourer, wire mill labourer, zinc labourer, or according to worker assisted, e.g., billet cutter's labourer, brass finisher's labourer, brass roller's labourer, chemical plant's labourer, constructional steel works' labourer, pewterer's labourer, wheel maker's labourer.

labourer, back side; a blast furnace hand g.v. working on charging side of furnace only.

labourer, calciner (sine); shovels zinc ores into oven of calciner, and performs other unskilled manual work in process of calcining.

labourer, front; front side labourer; casting men in blast furnace hand g.v. employed on casting side of pig iron furnace and on pig casting beds. Flabourer, sailor gang; sailor labourer; informants (metal trades); a labourer g.v. with seafaring experience employed as a slinger (188) g.v. and in piloting ropes, etc.

labourer, sand blast; assists sand blaster (250) g.v. by bringing castings to be cleaned and by removing clean castings and keeping sand blast machine supplied with finely ground sand.

labourer, steel press; assists hot straightener (300) g.v. to manipulate hot steel rails under straightening rolls or press; sweeps up floor and does various odd jobs.

labourer, thinner; assists thinner (263) g.v. by putting articles in, and taking them out of vats.

labourer, zinc; coal and ash wheeler (zinc extraction); a labourer g.v. in zinc smelting works; performs odd manual work, e.g. wheeling coal, ashes, ore, etc.

ladle dambor, hot metal ladle dambor (steel manufacture); patches hot ladles, into which molten metal from furnaces is run, by throwing damp clay on defective spots, and tamping it into place; or repairs ladles by applying a wash of ganister, patching is sometimes done by ladle liner (278) g.v., especially in small works.

ladle man (blast furnace); direct ladleman; assists ladler (278) g.v. and reports on quality of metal in works where molten metal is conveyed direct to steel melting furnaces.

ladle man (copper smelting); assists ladler (278) g.v. with manipulation and moving of slides by travelling hoist or by wheeling on bogies.

ladle man (steel manufacture); brings ladle (large clay and firebrick-lined steel vessel) into position by operating powerful overhead cranes, or to receive molten steel from tilted Bessemer converter, or from open hearth furnace; when filled, moves ladle along to casting pit where steel is run out by teemer (278) g.v.

ladler (lead extraction); conveys or pours molten lead, by means of hand ladle, or ladle supported by overhead crane.

lappet maker (textile machinery); drills holes, at regular intervals in metal discs, to take lappet needles, the whole former part of lappet loom on which an extra (whip) warp ambulatory thread is inserted in pattern.

layer-on; dresser (files); covers file with charcoal, or with strips (heat middlings) and sets file in banding, to protect teeth in lead bath; passes file to hardener and generally assists him.

lead coremaker; (1) buffer maker, bulled machinery, core casting machinery, core cutting machinery and operates machine which cuts

lead core of bullets from rod stock, face coil or drum of rod lead, on spindle and passes end of rod into machine; reports any faulty work to foreman; (2) casts cores in dies, as for lead caster (188).

lead press man, see potman, lead press.

lead worker (cartridge); general term for workers handling lead in cartridge and small arms factory, including lead squitter (278), lead coremaker and valveness. Laver boy, lavager, laver man (rolling mill, steel foundry); operates levers attached to hydraulic or other machinery, used for movement of cars, bogies, wagons, lifts, elevators, etc.

lifter, bar, see bank man (puddling).

Lifter, carriage; After (railway coach); prepares rail layer carriage for use by crane or derricks and sets springs and axle boxes into position thereunder, ready for lifter (210) g.v. Lifter, dog (puddling mills, tube mills), see dog boy.

Lifter, ladger; operates machine or crane which lifts and removes ingots from casting pits or moulds, or from cars where car casting process is adopted; may also be an ingot stripper, see stripper.

Lifter (iron and steel tube rolling); lifts tube as it is ejected from rolls and places it on truck for conveyance to another part of works, or assists in lifting tubes on to banch, preparatory to rolling.

Lifter, pig; pig iron lifter, pig lifter-out (blast furnace); metal carrier, pig bed metal carrier; lifts pigs of iron cast in pig beds, sometimes also carries them to trucks; cf. filler, pig.

Lifter, pig (steel works); attends to hoist for lifting pig iron on to cupola charging platform.

Lifter (railway coach), see lifter, carriage.

Lifter, scrap (blast works); operates and controls hoist or crane which lifts scrap to scrap platform.

Lifter, wagon, see lifter, carriage.

Lifter-up, rod mill; lifts rods with tongs from grove to grove in rolls, or over top of rolls of wire rod mill.

Lifter-up (rolling mill); (1) anchorer, hooker; grips bar with cross tongs swung from overhead rail by chains and pushes it towards a set of rolls for rolling; (2) controls valves and levers of hydraulic lifting-up table at back of rolls, under direction of rollerman (178) g.v.

Liftman; operates lifts for elevating material to furnace platform or stage.

Limer; assists filer g.v. in filling barrows with limestone and ore in ironworks.

Lister, see filer, rack (tinplate).

live roller and skid lad, see roller gear boy.

loader; (1) blast furnace, iron and steel works, loads iron, scrap, etc., from stock into trucks or barrows, to be sent to steel converters or furnaces of steel works; receives loaded barrows of iron ore from ore fillers g.v. and places them on table of hoist, whence they are conveyed by steam or water power, to charger at top of blast furnace; (2) barrows with slag ejected from furnace; sometimes done by slogger (278) g.v.; loads blooms on trucks for conveyance from hammer to shears, etc., sometimes specifically designated, e.g. bloom loader, bridge loader, slag loader, hot loader, ironstone loader, lift loader, metal loader, mine loader, slag loader; (3) (rolling mill), loads wagons, lorries, railway trucks, etc., with finished bars, plates, rails, sheets, casted metal goods, etc., or with metal for transport; when loading heavy articles such as galvanised sheets, uses small crane;

sometimes specifically designated, e.g. bar loader, bar mill loader, plate and scrap loader, rail loader; (4) (other metal trades) places cut lengths of metal on trucks for movement about works, or on stand near furnace ready for heating, or loads cases of finished goods into wagons, etc., sometimes specifically designated, e.g. wheel loader.

loader, swift (wire works); bobbin winder, swift minder, winder, wire spooler; (1) attaches end of finished wire to large set bobbins or swifts; starts winding machine by lever and removes full swift when wound; (2) loads coils of wire on machine swifts as required for machine weaving or stranding.

loader and unloader; combines work of loader and unloader g.v.

locker, see groover (tinbox, enamel, etc., making).

looper (hayband making), hayband looper; inserts ends of lengths of wire cut by hayband maker g.v., into machine which makes a loop on end.

looper (pianos), see eye maker (pianos).

lubricator (gun making), see oiler of arms.

lumper, see yard man, metal.

machine attendant, machine hand, machine minder, machine tender, machinist; general term for any operative feeding and attending automatic or semi-automatic machines; does not set up machines, but under supervision of machine tool setter (211) g.v. or foreman, feeds blanks into machine, keeps feed hopper full, pushes sheet, bar, strip metal or wire against guides, etc.; cleans machine with oil waste; watches for proper working, reports faults to setter or foreman.

machine boy; assists at tinning machine in tinplate works; attends to fire, greases machine and does any odd jobs.

machine chipper man, machine chipper man; operates portable machine tool for removing rough edges from castings, or for trimming steel plates, etc., when in position; cf. chipper (183) framer, and chipper.

machine minder, machine tender (pins), bar minder, pin cutting machine attendant, pin machinist; watches pin cutting machine in operation, cleans it, and stops it if producing faulty work.

machinery dismantler; dismantles, takes down, or break-up old machinery which is to be scrapped, using spanners, heavy hammers, or oxy-acetylene burners; usually employed by a machinery scrap dealer.

magnetar; shovels away metal turnings, etc., into hopper lead of magnetic separator machine; collects ferrous metal from plates of revolving drum and non-ferrous from pan.

malleable iron oven packer; places castings in annealing oven so that as many as possible can be annealed at same time.

mark boy, plater's mark boy, see marker, plater's.

marker (dog iron); a cutter g.v. who cuts strips of iron into required length for pair of front dog irons, and who also indents a mark across to denote middle.

marker, cutlery; punches with a die and mallet, or operates a machine stamp, to mark knife of fork blades, shoulders of pocket knives, etc., with maker's name, or with such words as "stainless," "best steel," etc., in cases where article (190) g.v. does not mark cutlery.

marker (galvanised sheets); marks finished galvanised sheets with stencil of firm's name, etc.; sometimes done by packer (349) g.v.

marker (needles & hooks, etc.): stamps maker's name on fish hooks, large needles, etc., using hand or power press and stamping dies.

marker, plater's; mark boy, marker boy, plater's; mark boy, template boy, mangle plater (222) g.v. to mark with chalk or slate, lines or rings where plate is to be sheared, or punched for rivet holes; uses template to fix shape, and position of holes.

marker (rolling mill): (1) marks head numbers, weights, etc., on blooms, billets, or slabs; (2) to shear slabs, is second assistant to abler g.v.; marks packs of sheets with a template, for size.

marker (saw): numbers, or otherwise marks, saws with power press, hand press, or with hand mark and hammer.

marker (scales, weighing machines), see notcher.

marker, spring; marks axle springs with chalk for drilling or slotting; stamps them, when finished, with distinguishing marks, by means of hammer and stamps.

marker (tinplate), plate marker, plate mill marker; marks iron and steel plates with chalk, using templates, to indicate where ends and edges are to be sheared, and lengths to which they are to be cut.

marker boy (shipbuilding), see marker, plater's.

marker-off (tubes): (1) measures, examines, compares with plan or sketch, and marks-off with chalk, tubes which are made to special design or sketch; (2) measures, examines, and marks-off defects in tubes, for correction or rejection.

matcher (tinplate); match plates from roughing or breaking down rolls for size, gauge, etc., ready for finishing rolls; usually done by breaker-down (178) g.v.

matcher-on; matcher's assistant; bares and countersinks cutlery handles in lath and fits grips thereto.

matrix block (foundry); brushes surfaces of moulds, before casting, with a coating of black lead (plumbago or graphite) to prevent casting adhering to mould.

metaller, white metalliser; belt/runner, bearing runner (lecor); maintains proper head under white metal pots and pours or runs white metal into bearings and bushes of locomotives, rolling stock axles, motor cars and similar road vehicles.

moulder (rolling mill); plasterman; works at mangle set of rolls, where there are three or more sets in a train of rolls in sheet mills; catches hot sheet in tongs from furnaceman, knocks it on floor to remove scale, and passes it through rolls to roller-man (178) g.v.

iron and steel roller, see cropper mill cropper and roller.

mill band (galvanised sheet); general term in galvanising works for men standing at rolls in corrugating steel sheets or rolling-off excess of zinc from dipped sheets; includes bolder up, taker out g.v.

mill men (rolling mills); a labourer g.v. engaged in or about a mill, on work such as cleaning-up, carrying material, etc.

mixer man, see tar mixer.

monkey man, monkey runner (rolling mill); operates overhead runway to convey hot billets from furnace to squener or rolls.

mould cooler (steel works); chiller; sprays moulds with water after use, to cool them, and sometimes whilst in use in order to hasten cooling of steel ingot.

moulder casting pit (iron works); shapes moulds in sand, in casting pit, with assistance of patterns, shovel and ramming tool, ready for teeming of molten iron from ladle.

moulder, pig bed moulder; prepares pig bed in sand with wooden moulds, shovel, rake and rammer; cuts channels in sand, connecting pig

moulds; guides flow of metal, when furnace is tapped by opening new channels with spade as required; work often done by furnace helper (171) or slagger's helper g.v.

moulder, spare hand; a blast furnace hand g.v. who acts as pig bed moulder, when necessary through sickness of regular worker or other causes.

mould gronter; fills up bad places in moulds with a paste of refractory materials; also brushes inside of mould with wash of plumbago and water or tar or other composition, to prevent sticking.

muffelman (iron foundry); overseer, oven packer; feeds and tends fire of muffle furnace; usually also charges or packs ore, metal, etc., in furnace.

nailer-on (wire mattress), see tacker-on (wire mattress).

needer (temple); night temple maker (210) g.v. and keeps him supplied with steel pins or needles.

needle winder (wire weaving); feeds coil of wire on spindle of winding machine, feeds end of wire into needle (combined bobbin and shuttle), used in wire weaving loom, and starts machine; snips wire with pliers when needle is full.

nibber, nibhar-in (buckles); pronger; fits metal strip containing prongs on to middle bar of brass buckle; hammers fast by hand or places in automatic machine which fastens the prongs to bar.

nickel plater (safety pins); a pin plater g.v. specializing in safety pins; cf. nickel plater (232).

nickel rondelle maker (nickel extruder); mixes nickel oxide with a binding material and roughly shapes small circular blocks by hand; places block or rondelle in hand or power press, moves lever to press block, and removes rondelle.

nickel rondelle maker's assistant; carries rondelles on trays to drying racks and generally assists nickel rondelle maker g.v. to mix oxide, clean machine, etc.

nickel shed return conveyor (Mond process), wheels tracks of undecomposed nickel matte and scrapings from decomposers to cupels and melting furnaces for further treatment.

nickler (screws); cutter girl; places screw in slot or holder of machine, pulls down revolving cutting wheel on to head of screw by lever; regulates supply of lubricating solution.

nipper (vehicles), see wire tender (vehicles); cf. nippler (178).

notcher (scales); marker; measures and marks, by use of calipers and scribbling tool, divisions on stockyard of weighing machine; cuts lines on front and notches on top of steel-ward with fine files in vice on bench.

notcher (tin boxes), body notcher, hex notcher; corner; places sheet steel in tin boxes, caulkers, etc., against guides in cutting machine, which cuts out corners or notches; controls machine by lever; for specially shaped boxes, may cut out corners with hand shears.

notcher (tubes); end dresser; (steel-band) twists the overlap of hot metal with pinners at ends of lap-welded tubes so that lap at end is cross-rolled.

notcher, notching machine worker (rolling mill); pulls lever which causes work to be lifted up and carried forward to power-driven revolving cutter, which cuts a notch or slot; sometimes places work in grip or holder of machine, is put-ter-on.

number snatcher, see number taker.

number stamper, see brander (sawing machines).

number taker (iron and steel works); number snatcher; records and checks steel ingots from open hearth and other furnaces in large works; cf. number taker (705).

nut drilller, see borer.

nutter, nutter-up; butter-up; screws flattened put on end of bolt, when nut and bolt are supplied as one product.

oilier, or for greaser.

oilier, bolt, see dipper, bolt.

oilier (files); oiler file, after hardening of file and softening of tang, by dipping them in oil to prevent rusting whilst in store; often done by brusher (files) or finisher (files) g.v.

oilier (general engineering); greaser; fills oil or lubricating cups of machinery with oil from oil can under direction of engineer or machine driver; cleans and oils or greases working parts with oily waste; sometimes specifically designated, e.g. baggie (baggy) oilier, car oilier, shear oilier; (iron and steel rolling) oils bearing of, and cleans with oily waste, various driving engines and gear for driving mills and handling metal in rolling mill; sometimes also oils, greases and cleans mills, usually specifically designated according to duties, e.g., coming mill oilier, finishing mill oilier, gear oilier, mill engine oilier, roller gear and crane oilier.

oilier (saws); oilier (saws); oilier finished saw and wipes off excess oil before packing.

oilier (shipbuilding), etc., for oilier and beltman.

oilier (tubes, iron and steel); seaper; cold steel tubes preparatory to cold drawing, and oilier finished tubes for their preservation.

oilier and beltman; an oilier or greaser g.v. employed in shipbuilding, who also repairs driving belts.

oilier and greaser; an oilier (iron and steel rolling) g.v. who also greases rolls, especially at neck.

oilier of arms (gunsmith's); lubricator; lubricates movable parts of small arms, and covers metal surfaces with oil, as a protection against rust.

oil extractor; places oily waste in hydro extractor or centrifugal machine; starts and stops machine, removes clean waste and empties oil container, into which oil has been expressed.

oil padder, patent oil padder; rivets into frame of patent oiler, a thick cotton pad which sucks up and applies oil to tops of engines.

oil separator, see filterman.

Oliver assistant, Oliver hammer assistant; works handle which operates Oliver hammer, whilst Oliver smith (195) g.v. manipulates hot metal under blows of hammer; also brings material, and takes away finished work.

oneater (blast furnace); setter-on; a loader g.v. who pushes trucks, etc., on to hoists and lifts around blast furnaces.

opener, opener-out, plate opener (tinplate, galvanised sheet manufacture), opens, or separates, with a knife or cleaver, after shearing, sheets which have stuck together in rolling process.

operative (Royal Mint); passes, by hand, metal blanks into a coin producing machine; controls power by hand levers.

ovenman (bottle-ware), see scaler (bottle-ware).

ovenman, oven packer (ironfoundry), see millman.

pager; type pager-up; lifts type from sticks with a paging-up iron as it is received from type finisher and makes it up into rectangular packages, i.e. pages, containing definite number and assortment of letters, etc., dependent upon size of type and of page.

paperer, see sticker (pins).

parer (card setting), card parer; operates a cutting machine which trims cloth edges of fillets of card clothing, strips of leather, cloth, etc., set with wire tooth.

parer (saws); places marked steel sheets in a shearing machine, or against circular saw, to cut or pare it to shape of new blank.

parer, wheel; trims wheel with hand hammer and chisel, to balance it about its centre of rotation.

passer-out; checks, counts, examines and passes or rejects newly made tin boxes or tin boxes which have been repaired by straightener (tin boxes) *q.v.*

passer to bench (iron and steel rolling); carries bars, strip, etc., from shearing machine to bending machine.

potter's secker; foundry router; looks out potteries in store required for use in foundry, and stores them when not in use.

pegman (rolling mill); adjusts peg or block of steel to stop power hammer of forge from striking too heavy a blow; work usually done by stamper (174) or forger's helper (190) *q.v.*

picker, piercer-out; sorter, thrower-out, reuter; sorts over small finished articles, e.g. bolts, nuts and rivets, screws, nails, locks, printing type, etc., and throws away defective ones; sometimes specifically designated, e.g., nut picker.

picker, bat (blast furnace); sorts good from useless silica bricks or hat.

picker, cylinder (cobalt); cobalt cylinder picker; cylinder; picks out grades of cobalt glass formed when cobalt ore is reduced and residue fused with quartz and potash.

picker, scrap picker; sorts over scrap metal and separates it into different grades, metals, sizes, etc., as required.

picker, zinc, *see* dresser, *see* (zinc extraction).

picker-off, cold rolls; (i) (iron and steel rolling); *see* cold roll catcher; (ii) (tin sheet mill) picks up sheets as they emerge from rolls and piles them on trolley.

picker-up (galvanized sheets), cold roll picker-up; picks up sheets from floor or stand, in galvanized sheet works, and carries them in trolley to picker (250) *q.v.* or to warehouse as required.

picker-up (iron and steel rolling); (i) *see* cold roll catcher; (ii) an announcing man (230) *q.v.* or a labourer, who collects sheets from mill floor.

picking stick, *see* helper, picker's.

pierser; pushes solid steel bloom along in charge up to rolls containing piercing tool which pierces hole through it, whilst hot, in production of seamless steel tubes; *cf.* piercer (256).

1246 hanger-on; hooker-on; slings pups for attachment to hook of overhead crane for removal from blast furnace; sometimes done by breaker (blast furnace) *q.v.*

pig heaver, pig iron heaver, *see* tipper (pig iron).

piger, billet; keeps iron yard in order, in wire netting, rope, etc., works and piles pig iron or steel billets into stacks.

piler (blast furnace); stacker (blast furnace); a pig lifter (blast furnace) *q.v.* who lifts pigs and piles them ready for slinger (985) *q.v.*

piler (chain making), *see* floorman.

piler, hot, *see* bank man, hot.

piler (puddling furnace); (i) stacker (puddling furnace); stacks finished wrought iron bars ready for bending and rolling; work usually done by bar weigher or bar carrier *q.v.*; (ii) *see* faggoter.

piler, scrap (iron and steel rolling, steelworks), *see* faggoter.

pilar (steel furnace); nonloads from truck, carries and stacks piles of scrap for charging steel furnace.

pincher; moves cast or hot in steel works, by applying crowbar, called a pinch bar, to wheels.

pin knocker; attends treadle-driven machine which puts heads on shank of pins; *see* knocker.

pin knocker-out (Bessemer); knocker-out which dislodges gun (part of converter stopper) used to form tuyere (or blast) holes in bottom of Bessemer converter (pin knocker-out type), *cf.* stopper man.

pin machinist, *see* machine minder (pin).

pin maker (guns); drop-forges in press, or turns in automatic machine, pins used in building small arms.

pin placer (bolt, nut and rivet making); stuffer; a loader *q.v.* who piles out lengths of iron and steel on stand near furnace ready for heater (171) *q.v.*

pin plater; electric tinner; makes up solution, according to formula, in vat; loads vat with pins to be plated, using hand fork or bowl; switches on electric current and leaves for given time; removes pins to drain.

pin presser; *see* stuffer (pins).

pipe bender's assistant; acts as mate or labourer to pipe bender (228) *q.v.* on pipe bending machine.

pipe man (coke ovens), stand pipe man; opens valve, slides down pipe cover and so connects pipe with collecting main; also clears out carbon from sides of pipe with long metal bar.

pipe press man; rollman; passes cut plate between power-driven triple rolls; manipulates lever control to increase pressure of top roll on plate; carries curved plate to furnace and again passes through rolls to complete curving into pipe.

pit hand (tubes), *see* welder.

placer (rolling mill); lifts and places rolled bars in any position required, with assistance of overhead tackle, rollers and crow bar.

plater and roller lad, *see* roller gear boy.

plateholder; (i) arranges and sets plates upon which moulds rest in steel casting pits; (ii) places stopper plates in position for stoppering tops of moulds after metal has been run into them; usually done by pitman's helper *q.v.*

plateman (rolling mill), *see* middle. plate repulper; butterer, plate butter (Stockport); plate butterer; places heat drawing plates under automatic hammer, through which wire is drawn, and restores to shape by moving plate under blow of hammer (buttering); sometimes done by wire drawer (268) *q.v.*

platform boy; marks moulds used in steel casting, with chalk, to show length of ingot, and cleans scrap from moulds; usually done by pitman (278) or mould setter (278) *q.v.* under direction of tinner (276) *q.v.*

plugger (gas fittings, etc.); sprinkles emery powder and water on plug and seat of water, steam or gas tap, valve, etc.; turn or grind plug in socket to grind down irregularities until plug fits tightly to render it water or gas tight.

plugger (stove gates); lifts blow in surface of cast stove gates, by welding with oxy-acetylene apparatus.

pointer (bolts, screws); ender; feeds and guides automatic machine which puts points on bolt or screw blank; pointing sometimes done automatically in screwing or worming machine; *cf.* wormer (209), chanferer (260).

pointer (slag iron); hammers both end and mid strip, after it machine drawn, to form points of slag iron.

pointer (wire works), rod pointer; tonguer; prepares rods for wire drawer (208) *q.v.* by hammering out point on anvil by hand.

polisher; (i) float and shoe plate, steel pen; *see* barreller; (ii) (displate) *see* dresser and helper (hand).

post-pom worker; a chipper *q.v.*, using a pneumatic hammer.

potman, sand press, feed press man; assists lead press driver (279) *q.v.*, by feeding fire under lead melting pot, keeps heating machine and pipe with metal at proper temperatures.

potman (steel); prepares pots or crucibles for casting, turns out steel ingots when cool and removes slag and dross from crucibles with hammer and chisel.

potter (slag extraction); slagman; receives slag as it flows from blast furnace or cupola into cast iron pot, supported on wheels; wheels pot into yard to cool.

preparer (roller chains); threads links on studs for assembly to rivet, preparer, mould; sweeps, scrapes, and turns or sweeps moulds to prevent steel ingots from sticking; often done by mould grinder, mould man (278), pitman (278), or mould setter (278) *q.v.*

presser; places blocks of light cast iron, pressing machine and operates machine to punch or press out holes; usually done hot, *cf.* nut cutter, machine nut maker (190).

press tender (rolling mill); a cleaner *q.v.* working around power presses in rolling mill.

pronger (huckles), *see* rubber (huckles).

proofer (safes); safe stuffer; packs spaces between walls of safe with sand, asbestos, slag wool and other material, to make it fireproof.

proof man (gms), *see* barrel prover.

pryer, pryler (sheet rolling mill), breaker (iron and steel rolling), scale cleaner, scaler, steel mill sweeper, sweeper, sweepers, tableman; sweeps scale from bars and sheets with a broom; may also double over rolls, and sometimes for its being re-heated, and re-rolled into thinner gauges; sometimes done by doubler (178) *q.v.*

puller, stamper's; stamp puller, pull-up (steam locomotives), *see* stamper's helper.

puller-down (galvanized sheet); takes steel sheet from pot, after galvanizing, by hand with tongs or by crane.

puller-off (galvanized sheet); pulls with tongs galvanized sheets from rolls, which excess of zinc is scraped-off.

puller-out (cutlery), *see* hardener's assistant.

puller-out (iron and steel rolling), *see* drawer, bar.

puller-out (puddling); reserves half of puddled iron, weighing about 80 lb., from puddling furnace, by means of tongs; places half on iron harrow, and wheels it to shingler (174) *q.v.*

puller-out (steel manufacture); pulls crucibles, with their gates contents, from melting hole of crucible steel furnace, and places them on furnace floor ready to be removed by taker-off *q.v.*; returns empty crucibles into furnace ready for next melting; sometimes responsible for firing of furnaces and for regulating temperature; often does work of collarman *q.v.*

puller-up, fuser; assists fuser (241) *q.v.* in putting metal goods, after they have been enamelled, in a muffle furnace.

puller-up (rolling mills), *see* door boy.

pulling-up boy (wire works); looking boy; pulls up and arranges loads of wire on rolling mill floor and so keeps wire from spreading about after rolling process.

pull-up (slag), *see* door boy.

pull-up boy (anchor chain making); pulls-up lengths of chain in course of forging; also keeps chain maker (190) or welder (190) *q.v.* supplied with material; keeps floor clear by pulling away finished chain.

punch attendant, *see* punch tender.

puncher, punching machine worker (forges, ship building); moves lever under direction of puncher (228) g.v. of hydraulic press or power punching machine which punches holes in hot or cold ingots, strips, plates, steel bars, steel plates, girders, boat and sheet piles, chug iron, angle iron, saw blades, etc.; may assist in placing work on bed of machine by lifting with or without crane; often specially designated, e.g., angle iron puncher, ingot puncher, rail puncher, sleeper mill puncher, steel bar puncher, etc., as follows; usually also does work of shearer, e.g., (1) cutters (metal trades) places work on bed of machine against gauge, and operates machine by moving hand lever or foot treadle to punch holes for bolts, rivets, screws, etc.; may set gauge or fit new punches; usually done by puncher (278) g.v.; sometimes specially designated, e.g., bobbin puncher, lath puncher, chug iron puncher, shoe tip puncher.

puncher, machine knife; section puncher; marks and slots, or pierces holes in agricultural machine knives or sections, by machine or hand press; usually done by section cutter-out (254) g.v.

puncher, section (tools); see puncher, machine knife.

puncher and shearer (rolling stock, boiler-making, shipbuilding); attends machine which punches holes in metal plates and also shears them to size and shape required; in shipbuilding, usually done by lister (223) g.v., cf. puncher, punching machine worker.

punching machine attendant (forging); clears, oils and greases punching machine; also changes punches and dies when necessary; similarly attends to shearing machine and adjusts shear blades thereon, where combined punching and shearing machines are used.

punch center; puncher attendant; cleans, oils, and greases punching machines, in iron and steel rolling mill.

pusher (wire rod); draws billet from furnace with long pusher at end of pusher (220) first pair of rod rollers.

putcher (tinplate); see helper, tinman's.

putter-in (bolts, nuts, rivets), as for heater's assistant.

putter-in (galvanized sheet); see feeder (galvanized sheet).

putter-in (iron and steel rolling); see guide.

putter-out (notching machine); places metal to be notched or slotted on holder or grip of machine, with or without help of crane or chains.

putter-together (axles); an assembler g.v. who assembles, or puts together, parts of axles for horse-drawn vehicles.

pyrometer attendant (foundry); checks temperature maintained in crucibles of ironfoundry, by watching readings of the pyrometer, an instrument which measures high temperatures; records temperatures in book; cf. temperature taker (steel works).

rack driver (shipplate mill); see roller gear boy.

racker; places decorated and varnished tinplates into drying racks as they come from litho and varnishing machines.

rail putcher (iron and steel rolling); a framer g.v. who removes from rails, themselves and rough edges left by rolls.

raiser; (i) (tin plate); see riser; (ii) (copper rolling) see riser, mill.

ramrod maker, see cleaning rod maker.

rattler (rivets), as for barrel.

raw material trammer (copper); pushes trucks laden with raw materials, ore, coke, coal, flux, etc., about a copper extraction and refining works.

receiver man (blast furnace); (Weld term); drives loco which propels receiver, or receiving ladle, into which molten metal is run from Bessemer furnace, to ingot bed.

recoiler (tinplate); see counter (tinplate).

reducer; reduces wire, intended for setting machine needles, bolt needles, or crochot hooks, on small automatic lathe or swaging machine; places needle in chuck of lathe or holder of swaging machine and brings tool to bear by lever.

reducing furnace head; assists reducer (771) g.v. in firing and cleaning furnaces, moulds and floors of lead extraction works.

replacer (tin boxes); see straightener (tin boxes).

re-shearer; a shearer g.v. who re-shears defective sheared galvanized sheets to smaller sizes or for scrap.

re-shearer's assistant; helps re-shearer g.v. to carry and adjust large sheets at re-shearing machines.

re-shearer's boy; assists at re-shearing machine when extra large galvanized sheets are being cut; or acts as re-shearer's assistant g.v.

rest driver; controls motion of a rest, a type of conveyor on which rails rest in a rail mill; operates levers under direction of rail roller (178) g.v.

rim worker, wheel rim worker; general terms covering workers for drilling and preparing wheels for perambulators, etc., and including wheel rim bender (278), wheel rim drill (200), wheel rim roller (178), wheel rim welder (242) g.v.

ring maker (lag making); feeds wire from a spool into a ring making machine which automatically cuts wire section and bends it into a ring, called a lag ring, used in connection with dolly beams; controls machine by hand levers.

riser; risers; stands at grease pot end of tinning machine, receiving plates as they emerge coated with tin, and transfers to racks, or more usually, to branning machine direct; modern practice is to use a machine called a "patent riser" or "auto-riser," in which sheets are branned up automatically from tinning bath and passed to branning machine.

Riser, mill (copper rolling); riser; stands behind mill or rolls and returns sheets over rolls to rollerman (178) g.v.; uses tongs, if sheet is hot; if cold, uses leather gloves; sometimes done by boilerer (178) g.v.

rivet machine minder, rivet machine tender rivet maker; (i) (cold method) cold header; operates automatic machine which makes rivets for bolting or for the sheet metal work from coil wire; feeds coil of wire on swift or coil holder and feeds end of wire into machine; controls levers and watches for any faults work; (ii) (hot or red) makes rivets for use in shipbuilding, boiler-making, and general engineering from rod or bar metal on semi-automatic machine; feels hot metal rod, bar or strip from furnace, using tongs, into receiving end of machine; applies power by hand levers.

rivet recesser, see stud recesser.

rockar (roller engraving); places hardened steel mill engraved with raised design in contact with copper roller to be engraved in special machine; turns wheel of machine, so that as mill and roller rock or bump backwards and forwards, the two are brought closer and closer together, thus forming mill deeper into copper to obtain better impression.

rod winder (wire works); a swift loader g.v. who winds rod, or thick wire, into a coil on power-driven swift.

roller (drums, logs); passes sheets of metal (edges already folded over by folder), between receiving rollers, which roll sheets into cylindrical form; interlocks folds made by folder g.v.

roller gear boy; line roller and skid lad, guide and roller lad, rack driver, skid boy, skid and line roller lad; (i) works handle, and assists roller (185) g.v. which controls passing of series of rollers, on which white hot metal is conveyed to and from mill; by means of rod, clears obstructions on sideways; (ii) rollers; in iron and steel rolling mill where rollers are not mechanically driven, places loose rollers in favourable positions to receive bar from rolls for next pass.

roller lad; (i) attends on roller (178) g.v., as messenger; (ii) see roller gear boy.

roller-over (brass); (i) covers iron rod or tube with a coating of brass sheet, by a rolling process; passes iron rod, core or tube, together with brass strip, between power-driven trip rollers; (ii) covers end of top rail by hand screw till strip is completely turned around core or tube; usually done by roller (178) g.v.; (iii) feeds and operates roll to which he passes brass strip for bending to semi-circular or angular section bending.

rollman (pipe); see pipe press man.

rotary cutting machine hand; feeds and operates rotary machine which cuts tin plate into strips and also trims-off corners of sheets.

rough machine man; general term for men operating machines performing first or rough machining operations:

Rubber; (i) rubs off, or removes, scale with wire brush, emery cloth, etc., from steel articles after hardening in oil bath; (ii) (cutlery) see hardener's assistant; (iii) (smoking) does final polishing of saws with fine emery powder to remove scratches and process marks; (iv) (steering machines) see stamper; (v) (typography) smooths cast type on a stone or by means of filing; (vi) (shoe) see cleaner and balper (hand).

rubber-up (reed making); rubs surface of pitch smooth on staves of reed that have been dipped by dypper in g.v. and allowed to dry and harden (trubish sampler (steel works); collects refuse, wheels it away and empties it on rubbish heap.

rucker (blast furnace); ironmaster rucker; breaks up with a sledge hammer, ironstone into small pieces and rakes into a heap or rack.

rumbler (barra spinning and finishing), shaking frame rumbler (boots and shoe plates) see hameller.

runner, bar, see runner, stem (tubes), runner, bearing, see installer.

runner, bogie; pushes up bogie or truck at furnace of rolling mill, to receive pieces of hot metal or billets, and wheels them to first rolls.

runner, coke; (i) see filler, coke; (ii) (pig iron) a wheeler g.v. who conveys coke in barrows from hoppers to furnace table.

runner, pile (rolling mill); conveys hot piles, ingots or bundles of pieces of wrought iron, from furnace to rolls, usually on overhead runways from which they are usually sling in a crane.

runner, pot (steel works); takes-off; raises crucibles from furnace floor by levering up on wheeled tongs and wheels or runs them to heater (376) g.v.; wheels back to furnace empty crucibles; often done by puller-out g.v.

runner (sawmills), nicker and turner's runner; assists nicker and turner's filler (231), or filler (231) in worming filler (231) g.v. by fetching and carrying materials, tools, etc.

runner, stem runner (tube, iron and steel); bar runner; keeps mandrel, oval, which tubes are drawn, in position against rolls, by hammering on end or stem during welding process; withdraws stem from tube after operation is completed, and runs back with it ready for use in another tube.

runner, tool; fetches and carries tool between tool shop or store and machines as instructed by foreman or tool setter (211) *g.v.*

runner, wagon (blast furnace); pushes, or runs, wagons, small cars, or barge of material about works.

runner-down (rolling mill); trawler-down; conveys hot metal bar from heating furnace to rolls, by means of tongs suspended from an overhead trolley by a chain.

runner-in, see charger, tube.

runner, maker (steel manufacture); makes and sets channel, I-beam or runner, through which molten metal runs from furnace to molds or ladles; lines a sand trough with bricks and gasifier, lights fire under trough to dry gasifier and sets trough in place; usually done by melter (second hand) (217) *g.v.*

runner, runner man (steel works); operates overhead trolley, which carries iron ladle from converter to converter vessel, in Bessemer process, and also dumps iron into vessels with hydraulic machine; when metal is not directly poured into converter vessel, adjusts position of movable clay-lined runner, or channel, for pouring into vessel, on side of runner-up (iron and steel rolling); (1) (in sheet mill) see drawer, bar; (2) conveys finished strip on to mill floor.

runner-round, runner-through (wire rod mill); picks up with tongs end of hot rod coming from finishing rolls, puts it through guide, and backs it over stand on coiling reel.

tailorman (metal trades), see labourer, sailor gang.

sand calciner, sand furnace (steel works); sand dryer; calcines, or bakes in furnace, sand used for making hearth of a Siemens Martin or other open hearth furnace.

sander in tinhouse (tinplate manufacture), see duster (tinplate).

saw backer, see back filler.

saw bench hand; a sawyer *g.v.* who cuts-up bars of lead with circular saw into suitable form, or cleans up chips by trimming cutting wheels from bars or other lead sections.

saw driver, saw engineer, sawman (iron and steel rolling); saws bars and sections of steel to required lengths and widths on power-driven circular saw; controls and adjusts metal to be cut on bed of machine; controls machine by means of levers.

saw girl, see for nicker.

sawman, sawyer, sawing machine worker, sawyer machinist; saws metal, in form of bar, tube, strip, etc., into lengths, using a machine saw; sets gauges, and clamps work against saw or controls automatic feed to saw by lever or wheel; controls power levers of machine, when not done by saw driver *g.v.*; sometimes specifically designated, *e.g.* brass rule sawyer, copper tube sawyer, iron sawyer, steel sawyer, tube sawman, tube sawyer.

sawyer, cold; a sawyer *g.v.* who cuts steel rails, billets, etc., when cold; *cf.* hot sawman (278).

scale cleaner (iron and steel rolling); scaleman; a labourer who removes scale from floor of rolls, or places it in skips, trucks or barrows, and sometimes wheels it away, *see* scale wheeler.

scaleman (iron and steel rolling); may be either scale cleaner or scale wheeler *g.v.*, or combine duties of both.

scaleman (ironfoundry), *see* checkweighman (ironfoundry).

scaler, copper sheet, *see* scraper (copper rolling).

scaler, enamelled sign; places iron sheets before enamelling, in furnace; when heated, removes them with tongs, and scrapes off loosened scale.

scaler (bellow - wire); *see* scumman (bellow-wire); removes scale, rust, dirt, etc., from sheet metal articles, by placing them in a furnace, and brushing off loosened scale, on removal.

scaler (iron and steel rolling), *see* pryler.

scaler (steel manufacture); trims scale and slag, formed at mouth of converters or ladles, either by hand with hammer and chisel, or by hydraulic chipping machine.

scamman, scarer; kids scarer; removes scale or lumps of fused clinker from sides of calcining kilns in iron-works with rake, hammer and chisel.

sawenger, *see* cleaner (steel manufacture).

scander (boot and shoe plates), *see* barreller.

scourer (press goods); rubs over tinned or galvanized surfaces with sandst, immediately after tinning or galvanizing; obsolescent.

scourer (steel pens), *see* barreller.

scraper (copper rolling); copper sheet scaper; scrapes off, by means of a steel tool, any adhering oxide not removed by heating copper sheet and subsequent rolling in water; also removes any surface cracks by scraping through until clean metal is reached.

scrap gatherer (shipbuilding, etc.); scrap collector; collects scrap steel lying about shops and yard and wheels it to scrap heap.

scrap gatherer (tin boxes, etc.); collects scrap tinplate as it falls from various cutting machines, and takes it to bandler *g.v.*

scrap lad (galvanized sheet), *see* faggetter.

scrap man (iron and steel rolling); copperman group remover; collects scrap iron and steel about hot saws and shears; loads it into trucks or barrows, and sometimes wheels it away to scrap heap.

scrap man, scraper (blast furnace) a wheeler *g.v.* who pushes trucks laden with iron and steel scrap to blast furnaces to be remelted.

scraper (steel manufacture); shovels steel scrap into mouth of Bessemer converter at signal from blower (170) *g.v.* to reduce temperature of molten steel.

scrappis (slang, Scotland), *see* cutter, scrap.

scrap remover, *see* scrap man (iron and steel rolling).

screeamer, blends; calamine screeamer, *see* dresser, ore (slime extraction).

screen tester; looks after and feeds machinery which screens or sifts slag, to experience and skill is known as first shifter or second shifter; (ii) sits on blocks of, and controls with knee, three or four scythes, and wraps them in brown paper, straw, and straw rope, in readiness for despatch.

salvage twister; attends automatic machine which twists wire to form a sledge of wire netting.

setter-on, *see* onsetter (blast furnace).

setter, setting-up boy (typefoundry); places type secured from cutting machine face side up in loose lines on bench, ready for dresser (278) *g.v.*

shaker, barrel shaker (iron and steel hollow-ware, boat shoe plates), *see* barreller; in nail and screw making, *see* sawdust as cleaning medium; sometimes specifically designated, *e.g.* forged shaker, turnoil shaker, wormed shaker.

shaver driver, *see* guillotine engine-man.

shearer, shear hand, shearsman, shearsman, shearing machine attendant, shearing machine worker, shearing machinist; copper cutter (bellow-wire, rolling mill); cuts bar material to length, or sheet metal to length, shape, or size, trims ragged ends, etc., by power or hand shearing or cropping machine; sets gauge or fixes template on work to guide cutting edge, or moves lever to bring work under cutting edge so that clearance takes place along chalked line; is shearing, usually done by puncher and shearer *g.v.*; often further designated, *e.g.* sleeper mill shearer, bloom shearer, circle copper shearer, fish plate shearer, iron shearer, scrap shearer, short link shearer (chains).

shearer, bar; bar shearsman (iron and steel rolling, tinplate), *see* cutter, bar.

shearer (boiler and tank making); a puncher and shearer *g.v.* working on plates for boilers and tanks.

shearer, shearsman (bolts, nuts and rivets), *see* cropper (bolts, nuts and rivets).

shearer's assistant, shearer's helper; holder-up at shears; helps shearer *g.v.* by placing iron and steel sheets on shear table, removing them when sheared, and removing also scrap metal from shears; *cf.* double marker.

shearer's marker; marks galvanized sheets to size with chalk and assists shearer *g.v.* generally.

shears worker, hydraulic; a shearer *g.v.* attending hydraulic shearing machine.

shearling attendant; lifts by means of shearlegs (a two-legged derrick), heavy fittings, such as engine parts, boilers, funnels, armour plating, etc., from jetty to ship, in shipbuilding and marine engineering; adjusts shearlegs with blocks and fall; controls winding engine by levers.

sheeter's mate; performs general unskilled duties for sheeter and erector (corrugated roofing) (208) *g.v.*

sheet mill worker; general term for any person employed in an iron and steel sheet rolling mill, *e.g.*, bar dragger, cold roll catcher, sheet bandler.

sheet shearer, wheeler, *see* turn-over (galvanized sheet).

shear-ready; places metal articles already cleaned and dipped in acid bath, to be sherardized (coated), in airtight retort and surrounds them with blue powder (zinc dust); watches temperature of retort during process of heating to 800-900° F.; removes from retort and sets aside to cool.

shifter (iron and steel rolling); (i) one of a gang of men assisting erector or driller (200) *g.v.* in shifting rails and putting them into position for drilling or turning according to experience and skill is known as first shifter or second shifter; (ii) is engaged in general lifting and carrying of ingots, bars, scrap, etc., about iron and steel works.

shifter boy, *see* for shifter.

shipper (tinplate); a loader *g.v.* who moves cans of finished tinplate by means of small crane or hoist, or stacks in trucks, etc., for transport from works.

shooter; fires a gun, charged with gun powder, in bottom of hot blast stove, to dislodge fine dust adhering to brickwork; rakes out dust and shovels into barrow for conveyance to slip; in small works, work is done by man (353) *g.v.*

shop tender, shop tenderer (small arms); a labourer who assists in factory wherever required; cleans and looks after work-shop; keeps keys and attends to lights.

snake wrapper-up, *see* for scythe wrapper-up.

sinter operator (blast furnace); feeds small or powdered iron ore to kiln or furnace, with a flux, and fuel, and controls furnace, thus causing ore dust to fuse together; takes out fused ore into hoppers, etc.

sizer (brass bobbins); sorts brass bobbins into sizes, for pecking and despatch.

skid boy, skid and live roller lad, see roller gear boy.

skimmer (blast furnace); holds with tongs, or axes, piece of pure steel iron over molten iron as it flows along channel to divert slag from pig bed into side channel.

skimmer (needles); feeds needle wires by hand between guide wheel and emery wheel of a machine which removes scale from middle of wires, preparatory to eye-making.

slackener; tools eye chains by hand to see if link joints are pliant; loosens stiff links or rivets, by tapping them with a hammer on steel block.

slag contractor; contracts to remove slag from furnaces or ladles; is in charge of men who tap slag from blast furnace or steel furnace, collect slag in ladle, remove ladle to slag heap and tip it; usually disposes of slag to artificial manure manufacturers; contractor does work of slagger (278) g.e.

slagger (puddling furnace); *clayey iron (R. Smith)*; loads slag into ladles and also wheels it to dump; are also slag leader, slag wheeler; cf. slagger (278).

slag men; any worker drawing-out, filling or wheeling slag, at blast furnace; cf. slagger (278).

slagman (lead extraction). see potter (lead extraction).

slitter (wire works); feeds sheets or strips of metal into slitting machine, which cuts them into narrow ribbons for use, e.g., as band or edging to wire mesh.

smithy, see smith's shop assistant.

smith's assistant; (i) see smith's shop assistant; (ii) in small iron factories, assists smith (190) g.e. by holding forcing on anvil or under drop hammer; heats forcing in furnace; cf. heater (171) and smith's striker (190).

smith's fireman; feeds, attends, and blows blacksmith's fire.

smith's scale attendant; removes scale from anvil and forcing during forging process, by scraping or brushing, to keep it clean for forging (190) g.e.; also removes collections of scale from floor round anvil.

smith's shop assistant, smithy, smithy labourer - *smithy*, smithy's assistant; does all lifting, carrying, cleaning-up and general labouring work necessary in blacksmith's forge.

snapper (filed); cropper; a shaver g.e. who trims or shears end of files on power-clearing machine, and squares ends by grinding on emery wheel.

snapper; *caster, feeder, feeder*; leads molten iron into various channels of pig beds; opens out or blocks channels in sand with a special tool or snipe; assists furnace keeper g.e. with repairs to moulds and does general labouring work round blast furnace; usually done by filler, furnace helper, or labourer g.e.

snouter, see blower (slag and slag wheel).

sooper, see roller (tubes, iron and steel).

sorter (bolts, nuts and rivets, screws, nails and tacks), see picker.

sorter (boot and shoe plates); sorts boot and shoe protectors after casting, rejecting defective castings and foreign bodies.

sorter, metal. sorter (general engineering); (i) see sorter, scrap. (ii) operates machine which separates iron or steel filings, turnings, etc.,

by means of rotating or travelling magnets; (iii) separates copper from same, lead and other metals by hand picking.

sorter, iron (Clyde District). see iron wheel's assistant.

sorter (needles); feeds hopper of, and operates machine which automatically sorts needles by length, cf. sorter (needles) (278).

sorter, scrap sorter; generally sorts and grades scrap metal, sometimes breaks-up and sorts scrap metal for smelting down; sometimes breaks it up with hammer and shears; sometimes specifically designated, e.g. sea lead sorter, tin sorter, tin foil sorter, waste sorter (tin boxes).

sorter, shale (blast furnace); sorts shale into various qualities; usually done by filler g.e.

sorter (steel manufacture); (i) sorts out various qualities of scrap steel or other material, for melting furnaces; (ii) feeds iron ore into washer, at bottom of which is running water, still separates constituents according to specific gravity; (iii) (in cementation process) sorts-out converted, or blistered, bars, and returns those not satisfactory, for further treatment.

sorter and wrier (slag iron); a wrier g.e. who also sorts finished slag iron into sizes.

spenman (iron and steel works); walks round various departments tightening-up nuts, etc.

spindlar, see hub maker.

splitter (needles); *threeder*; *threeds* by hand, double needles, after siving, in groups of several hundreds, on two wires passed through needle eyes, ready for filer (225) or grinder (237) g.e.

splitter (copper rolling); lays several sheets of rolled copper on floor and hits them with a sub-stitcher a kind of roller, to flatten them and remove wrinkles.

split pin maker; attends and feeds automatic machine which makes and finishes split pins, from wire coil; fixes coil of wire on holder, controls levers and reports faulty work to machine setter (211) g.e.

split ring maker, as for split pin maker.

spout man; lines and repairs with special clay, hot metal spouts, or pouring channels, of furnaces, in steel works; usually done by meller (second hand) (171) g.e.; if spent has to be brick lined, is usually done by bricklayer (650) g.e.

spring buckler, see spring hooper.

spring coiler; a spring maker g.e. who uses a jigging machine, on which small coil springs are made; when spring is coiled on mandrel to required length, cuts wire with pliers.

springer; fits springs in doors of stoves, grates, and ranges.

spring hooper; spring buckler; fixes metal band or buckle round leaves of a laminated spring to keep them together; inserts screws or bolts and tightens up with screw driver or hammer.

spring maker; fixes drum of wire to holder of machine and feeds end of wire between rollers which twist wire into coil springs for use in furniture and upholstery making; as spring is automatically cut off, slips coil from rollers by operating foot lever.

spring unhooper, see *splitter*, spring.

stacker (blast furnace); (i) see piler (blast furnace); (ii) see dogger.

stacker (bolts, nuts and rivets), see tin placer.

stacker, pig iron stacker; a metal yarder g.e. who is in charge of piles of pig iron in foundry yard; moves and stacks them as necessary.

stacker (iron and steel rolling); makes stacks of finished bars, sheets, plates, etc., for storage purposes in stock yard or elsewhere; often does work of loader, g.e.; sometimes specifically designated, e.g. shipplate stacker, rail stacker.

stacker (puddling furnace); (i) see piler (puddling furnace); (ii) see dogger.

stamper (galvanised sheet); operates small press which stamps plates with customer's private brand or mark.

stamper, ore; iron ore breaker, ore breaker; attends to mill in which blocks of iron ore are crushed; controls levers and watches smooth working of conveyor belts.

stamper, rail; operates small press which stamps finished rails with customer's or roller's mark or name; sometimes stamps by hand with hammer and dies.

stamper (tinplates); *brander* (tinplate); *gun point*, *brush* and *stamps* to mark wooden boxes with makers' brand, and with size and quality of tinplates.

stamper's helper, stamper's mate; *puller*, *stamper's puller*, *stamp puller*; assists stamper (254) g.e. by pulling or kicking bars or strap which causes stamp to fall; carries metal to be stamped and does any other unskilled work.

staple maker; operates by means of levers, and attends to machine which cuts, bends, and finishes wire staples; fixes coil of wire on holder and reports faulty work to machine setter (211) g.e.

stayer (bailer); screws long thread stay bolts into hoiler stays by means of low gear machine controlled by hand lever; if necessary, snails and of bolts with hand or pneumatic hammer and chisel; cf. stayer (278).

telem crane boy; operates hand and foot levers to control simpler and smaller cranes used in steel works for lifting iron, steel, *scrap*, etc., in yard; feeds and stacks furnace.

steam hammer boy; moves lever to cause steam hammer to drop, on instructions of smith (190) g.e. steel bander (concrete shipbuilding); bends steel rails and girders in hand-operated or power press, into required shape, to form framework for concrete.

steel manager, see cutter-up (file).

sticker (needles, pins); *ponner*, *pin shorer*; (i) feeds pins or needles into hopper head of machine; passes strip of paper into machine and works foot lever to cause row of pins or needles to stick into rope; (ii) sticks needles or safety pins on card, by hand.

stirrup jigger; *rough*; (lines) leads bottom of stirrup with hammer and punch.

stitcher (wire works); joins together sections of woven wire mesh, or netting, by hand, sewing with wire and needle, or by stitching in a wire sewing machine.

stocker, iron; pig iron stocker, pig stocker; stock metal man; a metal carrier or pig lifter g.e. who places pig iron in stock and removes it when required for loading into wagons; generally also keeps account of iron entered or removed.

stockman (pig iron); general term for any man employed in pig iron stock yard; includes stock metal carrier, pig lifter, pig loader, pig tipper.

stock metal man, see stocker, iron.

stoker (blast furnace), see charger (blast furnace).

stoker, furnace stoker, see fireman.

stoker for annealing ovens (rolling stock); a fireman g.e. who feeds and keeps clean, fire under annealing ovens, in annealing of metal used in making rolling stock.

stoker (general ironfoundry), see fireman, oven.

stoker (shipbuilding), see fireman (shipbuilding).

stone; rubber (sawing machines); runs down metal parts of sawing machines, after jacking, with fine pumice stone and water.

stop bay (rolling mill); sets stop or gauge and pulls lever which operates shears, under direction of shearer *q.v.*, in a continuous rolling mill, to shear or cut blooms or rods to required lengths.

stopper man, **stopper setter**; removes old fireclay stoppers from ladles, and selects and places in position new ones, in steel works; makes new stoppers or repairs old ones by shaping lumps of fire-clay by hand about steel core, so that when lowered into pouring hole of ladle, flow of metal is stopped; *cf.* stopper maker (213).

straightener (aeroplane stays), **wire straightener**; straightens coil wires, used for stays in aircraft manufacture, by passing between rollers of straightening machine.

straightener, **coil-rolling mill**, **straightener** (iron and steel rolling mill).

straightener (general engineering); straightens iron or steel bars, rods, angles, channels, etc., by passing them through a pair of slightly conical rollers.

straightener (iron and steel rolling mills); (i) takes rods and bars of small section, while still hot, after delivery from rolling mill, with wooden mallets, to straighten them; (ii) straightens rods of round section, with tongs while hot, as they are being reeled on drum or machine; (iii) cold straightener; makes round sections dead-straight, in cold state, in a bright-drawn steel rod works, by twisting motion in and through a machine; (iv) straightens shafting, in cold state, by a rotary or twisting motion in and through a machine.

straightener (stone castings); heats slightly bent stove castings in oven; fixes by hand in vice and attaches heavy weight to bend metal to required extent.

straightener (tin boxes); **repaire** (tin boxes); places damaged, i.e. bent, tin boxes on mandrel and hammers them with wooden mallet to take out dents, etc.

straightener (wire works); straightens rods, or strip metal, either with hand hammer, or by passing them through a train of mechanical rollers.

straightener, **wire** (pins); helps pin maker (258) *q.v.* by passing coil of wire on wire or spindle of machine and guiding end of wire through steel pegs up to feed of pin making machine, straightening it by moving pegs as coil unwinds.

straightener at machine (drawn rods); straightens drawn steel and brass rods by passing them through mechanical rolls.

stretch, **stretch bar**, **stretching**; **stretch**, **potent**, **stretching**; places sheet to be flattened before galvanizing, in machine; turns lever to clamp sheet at both ends and applies hydraulic power to stretch it.

stretch (steel chains); puts cycle chain on hooks and moves lever to stretch it; taps it with a mallet against a block of wood to bring links into alignment.

stretch (bayband making), *see* bay-band maker.

striking board man; assists loan moulder (180) *q.v.*, in making large casting moulds by use of striking board, or template; sets guides and/or spindles under direction of moulder; draws striking board laterally along guide ax or rotates it about spindle to form inner or outer surfaces of moulds.

stripper (bolts, etc.), **bolt stripper**, *see* fraser.

stripper, **brake**; strips brake gear from rolling stock before repair or renewal, by undoing bolts and nuts with hand tools; usually done by brake fitter (210) *q.v.*

stripper (copper); separates laminated slabs or ingots of copper into thin plates, after they have been withdrawn from casting moulds.

stripper (files); **dresser** (files); strips, i.e. levels or smooths surface of file-blank in readiness for cutting, by filing, (hand or machine) or by scraping.

stripper, **ironwork**; dismantles and breaks out structural iron or steel work, from old buildings, and other works of construction.

stripper, **spring**; **spring** **unloader**; operates hydraulic machine, by which hands or bodies round leaves of steam locomotive springs sent in for repair, are removed.

stripper (steel manufacture), **ingot** **stripper**; strips ingots from moulds, i.e. operates and controls, by means of levers in cab of overhead crane, apparatus for removing steel ingots from moulds in which they have been cast.

stud maker (pieces); feeds metal rod in automatic machine which makes studs used to guide piston strikes on frame; watches machine for faulty work and stops it, if necessary.

stud **recesser**; **reed** **recesser**; puts small studs, used in eye chain making, in a hopper of automatic machine and stops it if not working properly.

stuffer (steel forging); at cementation furnace, lays charcoal in large fireclay boxes, places layer of iron bars thereon, another layer of charcoal on bars, and so on until box is filled or stuffed, ready for process; usually done by furnacemen (171) *q.v.*

stuffer, **safe**, *see* proof (safe).

stuffer (tubes); fills tubes with sand, to prevent their collapsing or flattening in process of bending, when bent; runs sand tight with ramming iron stumper; releases or fixes into position, mandrel on tube welding machine; sometimes does by hook bolt stopper *q.v.*

studsman (tube drawing); fills tanks with soapy water and maintains supply of lubricant to drawing plates on tube drawing bench.

sweeper, **sweeper** **lad** (blast furnace); **cleaner-up** (puddling furnace); sweeps up with beam, clinders, coils, fine dust, etc., from inside of, from around furnaces, iron runways, dust boxes, stores, etc., or top of gasholder, also removes coke fallen from barrow; sometimes specifically designated, e.g. one sweeper, bottom sweeper, top sweeper, work some times done by one filler or charger *q.v.*

sweeper, **sweeper-up**, **sheet** **mill** **sweeper** (iron and steel rolling), *see* pryler (iron and steel rolling).

sweeper, **ship** (shipyard); sweeps and cleans up vessels in later stages of construction or repair, in shipyard.

swift, **minder** (wire works), *see* loader, **swift**.

swiller (metallic bedsteads); washes brass portions of metal bedsteads in hot water, after they have been dipped in acid bath.

swiller (tinplate); **washer**, **white** **washer**; washes tinplates in water, after pickling; obsolescent; pickling machine now does this work.

table driver (rolling mill); **transporter driver**; controls levers of movable table which transfers steel billets from one set of rolls to another, at steel works.

tableman (iron and steel rolling), *see* pryler.

tacker, **tack** **minder**, *see* feeder, **tack**, **tack** **on** (wire mattress); **soiler-on**; fastens wire mattresses to wooden frames by nailing on with staples.

taken-down, **drier-down**; removes galvanised sheets from cooling racks, for sorting and despatch.

taken-off (galvanised sheets); removes galvanised sheets from warehouse trucks after inspection.

taken-off (steel manufacture), *see* runner, pot.

taken-off (tinplate), *see* catcher, bar.

taken-off (wire and mill); (i) takes off hot coils of wire rod from hot rolls, and stacks them to cool; (ii) removes bundles of wire rod from hooks of cooling, conveyor, and places them on trucks, using a long hook, suspended from a chain.

taken-out, *see* helper, corrector's.

tallier (wire works); keeps stock and labels goods at various stages of manufacture, from rod to finished wire, with particulars of cast, number or quality, to prevent mixing of different qualities.

tamper, **saw** **tamper**; places saw blade against gauge in semi-automatic machine, which marks and punches long hole in blade and rivets on tang.

tank excavator (copper extraction); (i) excavates residue from tank after copper has been dissolved out from roasted copper ore by agitation with sulphuric acid; copper solution is run off and residues stirred up with water before removal of insoluble portion; (ii) shovels out copper "mud" from bottom of tank in which copper sulphate solution has been stirred up with pig iron, scrap iron, iron borings, etc., in production of deposited copper; after iron solution has been run off.

tar mixer; **mixer** **iron**; attends machine which mixes tar with slag, in slag and slag wool making.

tenser, **tenser**, *see* snipe.

temperature taker (steel works); reads and records temperatures of furnaces in steel works, by means of a pyrometer; *cf.* pyrometer attendant (160) *q.v.*

template boy, *see* marker, plate's.

test boy (rolling mill); stamps or stencils, by hand, date, weight and length on finished bars of wrought iron.

tester, **can**; **patrol** **can** **tester**, *as* for **tester** (tin boxes, etc.).

tester's **made** (motor cars, etc.); assists car tester (278) *q.v.* in testing chassis, etc.; attends trials and assists in making minor adjustments.

tester (tin boxes, etc.); tests finished tin boxes, canisters, etc., by air pressure, in water, or by means of a vacuum, to ensure that they are airtight, sometimes also wipes and scours.

test marker (steel works); marks cast ingots of steel, when cold, with brush and paint or chalk, to show quality of steel according to test.

threader, *see* spitter (needles).

thread roller (screws); feeds with screw blanks, hopper head of screw thread rolling machine; empties tray of finished screws from time to time, and reports any faulty work to machine setter (211) *q.v.*

thrower-out, *see* picker.

thrower-up (galvanised sheet); passes steel sheets from pickling shed up to platform for galvanizing, using tongs.

tilter, **tipper** (steel manufacture); operates levers which tilt Bessemer converter or tilting furnace, under direction of blower (179) or melter (173) *q.v.*, *cf.* tilter (174) and (180).

tinhouse man; general term, covering workpeople employed in tinhouse, e.g. tinner (263), riser, helper, waterboy, brasser, duster, carrier-down, and wheeler *q.v.*

tipman, **slag** **tipman**, *see* tipper, **slag** (blast furnace).

tipper, **cinder** (blast furnace), *see* tipper, **slag**.

tipper (slag iron), **heel tipper**; tends a machine which hammers front of heel iron, forming a small flat top at each side, to grip front of slag heel when attached.

tipper, coke; carries coke trucks into bunkers of stock, for use in pig iron manufacture.

tipper (foundries), as for tilter (steel works).

tipper, metal (steel manufacture); operates crane or machine which tips up molten metal from blast furnaces into mixer.

tipper (pig iron); **metal wheeler**, pig **hoover**, pig iron **header**, pig iron **unloader**, pig iron **wheel**; (i) (puddling) conveys pig iron and scrap, as required, in barrows and mixes different quantities; usually also unloads pig iron and scrap in yard, and breaks it with sledge hammer or in machine; (ii) (foundries) tips molten slag from trucks into stock for rolling mill; is often a scrap wheeler *s.v.*

tipper, slag (blast furnace); tallman, lunation, under thrower, under **tipper**, slag back men, slag tipman, tipman; tips ladles of cold or molten slag at slag top or down chute into ladges; often done by general locomotive man (704) *s.v.*

tipper, slag (steel manufacture); operates and controls crane or bogie handling or conveying slag and under to dump.

tipper (steel manufacture); see **tilter**.

tongue (wire), see **hooker-out**.

tongue, see **peeler** (wire works).

tool grinder's assistant; assists tool grinder (287) *s.v.* by doing first grinding of tool on grinding wheel; usually also does work of tool carrier and tool runner *s.v.*

top man (blast furnace); see **changer** (blast furnace).

trailer, bar; drags bars over rollers with tongue from cold bank to bar straightener and thence to finishing bench.

trailer, iron; drags rolled puddled bars to cold bank over rollers with hand tongs.

trailer, trailer-out (rolling mill); removes finished steel bars from rolling mill to dump, grips them with a pair of hooks, and drags them along floor.

trailer-down (rolling mill); see **runner-down**.

transferer, transfer (ax); imprints trade marks, gilding, or other ornamental designs on japanned portions of boatheads, sewing machines, etc., or on engines, cars, cycles, etc., by free encasing, by means of transfer; stamps transfer and applies it to work by hand with a pad; cf. **ornamentor** (278).

transporter driver (rolling mill); see **table driver** (rolling mill).

trimmer; files and trims up stamped, cast or forged metal parts, *e.g.* of cycles, small arms, engine **trimmer** and chisel file, glazing tool, emery wheel or file machine saw.

trimmer, bullet; bullet **trimming operator**; feeds bullet blanks into hopper of trimming machine, which cuts or trims them to correct length and shape, controls machine by means of levers.

trimmer, cold; a trimmer *s.v.* cutting superfluous iron from forgings, etc., when cold.

trimmer, engine; a trimmer *s.v.* using a power-driven machine press or saw.

trimmer, hot; warm **trimmer**; a trimmer *s.v.* trimming forgings while still hot, by placing them, with tongs, in machine press; operates foot treadle to cause casting plate to descend and trim forgings.

trimmer, lead plate; trims excess of lead from accumulator plates, after they have been cast, sawn and cut to size, using a shave-block.

trimmer (tin boxes, etc.); **edger** (tin boxes); cuts away rough edges of tin boxes, canisters, etc., on semi- or fully-automatic machine, after they have been stamped out; places tin box on steel holder in machine and moves levers to bring a cutter to bear on each tin.

trimmer (sawed tubes); trims or cuts end pieces of tube or of casing after they have been drawn on draw bench, with back saw or circular saw; *cf.* tube sawyer.

trimmer, warm, see **trimmer, hot**.

trolley, trolleyer, see **bogeyman**.

trolley man (tinplate); see **wheeler**.

truckman; a pig loader *s.v.* who sees that trucks are brought exactly under chute, at pig breaking machine; or sees that railway trucks are properly loaded with pig iron from pig bins.

trumpet man; (i) makes runner, or channel shape, in a truncheon, down which molten steel flows to ingot moulds, in multiple casting; sets up steel sheets for bottom and sides, and lines runner with refractory bricks and special clay; sometimes also prepares base plates, upon which moulds are placed for runner man *s.v.*; sometimes done by runner man *s.v.*; (ii) (*Reverber* process) stands by blower (170) *s.v.* and calls out his instructions to men working under him through a megaphone.

tube and hoop cleaner (textile machinery); see **bobbin hopper**.

tumbler (boot and shoe plates); see **barrel**.

tipper, **tipper** at **stripper** and **winch**; by means of tackle, swings load, tap, or tipper, a heavy piece of iron suspended from a chain, and releases it, so that tap is brought down with great force on end of stocker (steel ingot which has got set stuck); ingot is thus knocked from the mould; sometimes done by **stripper** or **peelman** (278) *s.v.*

turner-out (brass bobbins); (i) runs-out, i.e. enlarges, centres or spindles holes in solid brass bobbins, by turning a hand reaming tool or by reaming out in a lathe; (ii) sets out or sets holes in metal standards for wippen bobbins by similar methods.

turner-over (galvanized sheet); **sheet turner**; turns over alternate sheets and arranges them for pickler (280) *s.v.*, in such manner that concave or convex surfaces of the sheets face each other, and are thus kept apart, so as to allow acid to get between them in pickling.

turner-up (iron and steel rolling); (i) turns over bars, rods, etc., from one pair to another in rolls to be re-rolled; usually is employed at strip or wide mill rolls; (ii) operates lifting gear in plate mills, to turn over plate for inspection of under side before shearing; (iii) see **forker**.

turner-up (iron and steel rolling); (i) (in bar mills) turns up or turns over heavy bars with long steel rod or lever, during course of rolling; (ii) (in tube mill) backer-up; backer; works at back of lap or butt welding furnaces, assisting chaper (278) *s.v.* to adjust strips or sheets to proper position in furnace; (iii) draws strip or hoop, when hot, with tongs, through die, then turns up edges of strip to form rough tube or sheaf.

turner-up man; (i) turns up spot or ladder by means of long bar after metal has filled ladle, and allows remaining slag in steel furnace or converter to run into slag pot; is usually done by melder (second or third hand) (171) *s.v.*, at open-hearth furnaces, or by pigman (173) *s.v.*, at Bessemer plant; (ii) (*Reverber* process) is in

charge of apparatus for turning vessel up into position after blast has been turned on.

turning-tilt, as for **nocker**.

twist drill, porter-off; cuts bar steel into lengths for making twist drills, by means of semi-automatic lathe; turns wheel to bring parting or cutting tool to bear.

type page-set, see **pager**.

type bewilder; cut in; or steel types from one part of rolling mill to another, as required.

umbrella lock hitter; places lock bit in position at rib and stretcher joint of umbrella frame, inserts pin and rivets at fastenings; handles also; unloader; discharges coal, *see* pig iron, timber, sand, etc. from railway trucks in yard of works, or from barges, or ships or barges at canal or dock; carries material by hand, in baskets on shoulder, or empties out with shovel; work usually done in rolling mills unloads bars, rails, etc. in metal or stock yard as received on bogies from rolls, etc.; sometimes specifically designated, *e.g.* bar unloader, coal unloader, iron unloader, ore unloader, pig iron unloader, rail unloader, scrap unloader, unloader of raw material (steel work); work sometimes done by filler, wheeler; *cf.* discharger, tipper.

unloader, rack (tinplate); removes plates, still hot, from racks to be annealed; work usually done by riser or by tinman's helper *s.v.*

valve-man (cartridges); moves levers at signal from lead squarer (278) *s.v.* to activate squirting press, which extrudes a continuous rod of lead.

vice band, viceman; **bench hand**; finishes in vice, with file and other hand tools, parts of brass goods, machine and engine parts, small forgings, or forged ironwork for coaches, cars, etc.

vice band, nail box; a vice band *s.v.* who files and chips, by hand, axle box castings, which are held in a vice, to remove rough edges and projections before the casting is machined.

viceman, body; a vice band *s.v.* who works at bench or vice, filing, chipping and generally finishing and fitting up, rough forged metal parts for bodies of carts, carriages, or flower (280) *s.v.*; *see* **picker**.

viewer, barrel; tests gun barrels for correct bore, riding or set with a gauge and by visual examination; discards those that are faulty.

wagoner, see **dogger-up**.

washer, black (tinplate); **wasterbush** (saw); places plates, brought on barrows from picking shed, in holder of washing machine; removes plates when washed.

washer, brass; shovels ashes and scrap from brass foundry into washing machine, which separates pure brass scrap from ashes and dirt.

washer, brasses; **glaze washer** (Stourbridge district); takes ashes and cinders from brass furnace and washes them in large tub of water; collects light substance which floats on top for use as fuel in forges of nail and chain makers.

washer (tea lead); a tea lead sorter *s.v.* who washes tea from scraps lead and rejects them when lead is required for further use, *e.g.* in lead pipe making.

washer (tinplate), **white washer**, see **swiller**; *cf.* **wishman** (tinplate).

washman (tinplate); (*And* *tin-roller*) brushes off surplus tin on plates placed in stand from tin pot by tinman (282) *s.v.*, and dips them one by one into wash pot to remove marks left by brush; *cf.* **washer** (tinplate).

wasterbush man; (i) see **washer, black**; (ii) see **picker**.

water boy; **water dog**; assists tinman (283) *s.v.* at water bath (14th) by helping to remove sheets, etc., brings in coal or fire; clears up ashes.

waterer; sprinkles water on pig bed to keep it moist in preparation for moulding; also cools pig iron after turning by directing water on it from a hose; usually done by furnace keeper (171) g.v. or one of his assistants.

water turner-on (at rolls); turns on water taps as required to cool iron and steel rolls; usually done by roller (178) g.v.

weigher; general weighman (pud-dling); weighing machine man, weigh-man; (i) weighs, checks and records weights of raw material, e.g., coal, ore, limestone, sheets, plates, etc.; (ii) weighs finished products of works; (iii) weighs and checks amount of material used in manufacture, e.g., but sine used in making galvanne sheets; (iv) weighs and records work turned out at intermediate stages of manufacture for purpose of calculating piecework pay; cf. checkweigh-man; often specifically designated, e.g., bar weigher, blackplate weigher, coke weigher, furnace weigher, metal weigher, mineral weigher, nickel weigher, ore weigher, pig iron weigher, pig weigher (puddling furnace), rail weigher, sheet mill weigher.

weigher, bar; (i) (puddling) weighs bars of malleable wrought iron and sometimes acts as bar carrier g.v.; (ii) (sheet mill) weighs iron and steel bars and makes up into suitable lots in readiness for final rolling; in Wolverhampton, work done by cutter-down or shearer g.v.

weigher (blast furnace); doorman; a weigher g.v. who has charge of men material charged; weighs and records amount, as directed, is charged; often further designated, e.g., charge weigher, furnace weigher, mine weigher, pig weigher.

weigher, engine; controls levers of turn-table and weighs machine in locomotive haulage works.

weigher, ingot (iron and steel rolling); charge taker (iron and steel rolling); a weigher g.v. who weighs steel ingots as admitted to mill.

weigher, pig (blast furnace); weighs pigs of iron, sometimes breaking off cross before weighing, see breaker, cross.

weigher-off (wore works); weighs gross and net weight of spoiled bath wire.

weigher-out; takes finished rolls from machines to warehouse.

weigher-up (general); weighs screw blanks for record and weighs purposes.

weighing machine man, weighman, see weigher.

weighman, general; (i) (puddling) see weigher; sometimes specifically designated, e.g., barrow weighman, furnace weighman, blast furnace, iron ore weighman; (ii) (shipbuilding and marine engineering) weighs and records weights of materials delivered into works or placed on ships in construction or under repair, is often also a gateman (952) g.v.

weight loader, see checkweighman (iron foundry).

welder (bath); pit hand (Scotland); assists welder (266) g.v. in pushing tubes out of furnace.

wheeler; barrow man, barrow runner, discharger (tinplate), frodley man (tinplate); wheels, or pushes or drags, material, fuel, stores, etc., in barrows, trucks, etc.; (ii) (shipbuilding and marine engineering) works, e.g., from storage dumps to blast furnace, from furnace to cinder dump, from coke hoppers to furnace table, from sand dump to puddling furnaces, from furnace, pit, or cupola to slag pit or dump; sometimes specifically designated, e.g., ashes wheeler, blackplate wheeler, blast furnace wheeler, charge wheeler, cinder wheeler, coal wheeler, coke wheeler, crop wheeler, (from shears), fettling wheeler (puddling furnace), metal wheeler, mine wheeler, ore wheeler, pig wheeler, pig iron wheeler, rail

wheeler, sand wheeler, scrap wheeler, slag wheeler, nickel cupola slag wheeler, stone wheeler (ironstone), spigal wheeler, tap wheeler (furnace cinder), work wheeler; (iii) (general) wheeler, bar; (i) (galvanizing sheet) a bar cutter's helper g.v. who wheels or strolls cut bars to furnace; (ii) (iron and steel rolling, tinplate) propels trucks laden with bars from stack or railway siding to shears or iron shears to furnace; (iii) (tinplate) wheeler, ballast; (i) (tubes) see bar-man; (ii) (wire netting, etc.) wheels in truck or barrow as required, billets used in making wire netting, wire rope, etc.

wheeler, clay; transports to furnace, in barrow, clay used in sealing tap hole of blast furnace; in Scotland, usually done by assistant furnace keeper (171) g.v.

wheeler, coal; conveys coal in barrows from coal dump to puddling or tinplate furnaces, also often performs duties of ash-man, coal discharger, or coal filter g.v.

wheeler, coal and ashes; (i) (copper extraction) wheels barrows or trucks of coal to furnaces and takes away ashes, (ii) (zinc extraction) see labourer, zinc.

wheeler, cold roll (iron and steel rolling, tinplate); cold coiler (iron and steel rolling); wheels trucks of rolled plates from cold rolls to annealing furnaces; usually done by machinery in modern rolling mills; in teapole trade, generally done by annealer's helper g.v.

wheeler, slab cover; holds up to wheeling machine, slab covers after stamping, to remove blemishes.

wheeler, engine (locomotives); one of a gang who fits and bolts wheels on to axles, under direction of fitter (419) g.v.; places winch and axle on rails under engine suspended by crane, assists in lowering engine on to wheels; fastens axles to engine by bolts and nuts through metal plate.

wheeler, scale; (i) (iron and steel rolling) scalesman; pushes truck or barrow laden with scale, from whence scale is removed from iron or steel ingots; cf. scale clearer; (ii) (puddling) conveys scale from vicinity of hammers in barrows, see scale clearer (puddling); usually done by cold wheeler g.v.

wheeler, wet; wheels tinplates on barrow from white pickling machine, and deposits them in tumbler's water "bath" (bath).

wheeler and piler; a wheeler g.v. in iron and steel rolling mill, who also stacks and piles rails, plates, etc.

wheeler-in (rolling mill); coiler and wheeler (rolling mill); wheels material, prepared by charge put-ter-up (278) g.v., to furnace platform in big modern works.

wheeler-in (tinplate); a wheeler g.v. transporting cut bars from siding to furnace, or tinplates from mills to tinhouse, from tinhouse to assorting rooms, etc.

wheel packer; packs pieces of iron between spokes, before process of "boxing."

wheel palmer; matches or pairs wheels, to ensure that each pair of wheels on same axle are of same diameter.

wheeler; coils brass pins with tin by boiling them in steam kettles with tin and oxalic acid; dries pins in heated revolving drum; (iii) (tinplate), cf. pin plater.

winder, bobbin winder, see loader, swift.

wiper, box; duster (tin box), wiper-off; wipes grease from tin boxes, castings, etc., during and after process of manufacture; also wipes off water after water tests.

wiper (cutlery), whetter's wiper; cleans and dries, and afterwards cups, if necessary, finished cutlery, ready for wrapping-up in paper.

wiper (sawn), see oiler (sawn).

wiper (tinplate), see dusting machine attendant.

wiper-off, see wiper, box.

wire bender (screwplains); bends wire as required for insertion in screwplains fittings, using vice at bench with pliers.

wire bender (vehicles); nippler; cuts, adjusts, shapes or threads wire spokes of motor car, etc., wheels, prior to fitting spokes into rims or hubs.

wire card maker; operates machine which weaves wire on to felt, iron, etc., base, to be cut up into wire for weaving castings, etc.; fixes spool of wire on swift of machine and feeds in cloth from roll; watches machine for faulty work.

wire clip maker; attends automatic machine which cuts up and shapes fine steel wire into paper clips; places spool of wire on holder, feeds and into machine and watches for faulty work.

wire giver-out; issues wire to card setter (226) g.v.

wireman; cuts and bends steel wire or rod and makes it up into various shapes for reinforcing articles made of reinforced concrete; uses vice at bench, pliers and hammer; bands joints with thin wire.

wirer (for pickling, tanning); strings small articles, to be pickled or tanned, on wire for convenience in handling.

wirer (rivets); fixes drum of wire at side of machine, feeds end into stamping die which shapes or forms wire rivets; watches machine for correct working.

wirer, box wirer (tin boxes, canisters); fixes wire through hinges of tin boxes, canisters, etc., and flattens hinges in a press.

wire spooler, see loader, swift.

worrier-round; a casual labourer employed in ash iron and steel rolling mill; does any unskilled manual work in mill.

yardman; is engaged in general labouring work in yard of metal or engineering works; looks after disposition of stacks of metal, fuel, scrap, etc.

yardman, iron (end); does heavy manual work in yard of sawfanning works, e.g., unloading metal sheets and loading finished safes.

yardman, metal; loader, pig iron loader; is in charge of metal yard or place where pig iron and scrap are kept; sometimes also performs heavy manual labouring duties in metal yard, i.e., unloading raw iron from railway trucks, stacking finished bars, loading bars into trucks, etc.

yardman (blast furnace); regulates traffic inside works, directs shunting, etc.; sometimes also acts as number taker g.v.

zinc recovery hand; melts and casts zinc ingots, zinc recovered from distilling retorts, cf. distiller (171) g.v.

ORDER VIII.—WORKERS IN PRECIOUS METALS AND ELECTRO PLATE.

Sub-Order 1.—Workers in Precious Metals and Electro Plate.

281.—FOREMEN AND OVER-LOOKERS.

foreman plater; is in charge of process of plating metals by electro-deposition, i.e., covering of Britannia metal, alabaster, white metal, etc., with a coating of gold, silver, nickel or copper; operates dynamo used in connection with plating vats or drums; mixes solutions used in plating, or superintends their mixing; superintends

work of platers (282), vat hands (229) finishers (249), polishers (285) g.v., and laborers employed in connection with plating processes; keeps time and output records of these workers; sometimes personally performs more difficult plating and electroplating work; is usually a skilled plater (282) and/or glider (283) g.v.

282.—ELECTRO PLATERS, NICKEL PLATERS

depositor; a plater g.v. who applies a coat of powdered blacklead, i.e., graphite, with a brush, to wax, plaster, wood or metal casts or models, and, by electro-deposition process, deposits a coating of copper, silver or other metal on casts or models so treated; sometimes specifically designated, e.g., copper plater, electro depositor, silver depositor.

depositor, electro plaque, as for depositor.

glider; a highly skilled plater g.v. who specializes in covering base metals with a coating of gold by (i) electro-deposition process, or (ii) (mercurial amalgam or fire gilding process) prepares amalgam by pouring mercury on gold which has been heated to a certain temperature, and quenching mixture through a filter bag of chamois leather until it is of correct consistency known as a "gold butter"; paints article with amalgam, with a brush, and disperses mercury by heating in a furnace or over a charcoal burner.

glider, heat; a glider g.v. who by fire gilding process, or more rarely by electro-deposition process, puts a thick coating of gold upon better class work, and gilds jewelry and things of silver ware and fine jewelry.

glider, parcel; a glider or plater g.v. who, by electro-deposition process, gilds articles, and sometimes plates with other metals, in such a way that only part of surface is covered, by "stopping-out," with brush and bituminous paint or lacquer, parts not to be gilded or plated.

glider and plater; plater and glider; combines functions of glider and of plater g.v.

gold anode man; gold machine man; anode glider g.v. who, by electro-deposition process by sending to hand or automatic rocking of connection rods and anodes of plating bath.

gold changer (electrolysis); gold fitter; replenishes electrolytic bath with fresh electrolyte, adds waste, cleans, etc., in electro gilding process.

gold fitter (electrolysis), see gold changer.

gold machine man, see gold anode man.

gold painter; a glider g.v. using the firing process.

nickel worker; a plater g.v. plating articles with nickel.

plater, electro-plater; carries articles of Britannia metal, albrass, silver, white metal or other base metal, with a coating of other metal by (i) dipping them in coating solution, by hand, (ii) (more usually) electro-deposition process, mixes coating solutions himself or receives them ready mixed from storage vats; superintends work of scratch brushers (285), cleaners (269), scourers (269) g.v. or other operations preliminary to, or forming part of, plating process; sometimes performs these operations himself; superintends their cleaning, by wires fastened on rods, in electrolytic bath or vats containing coating solution, i.e., acids and metal salts, through which a current of electricity is passed, causing coating metal (in form of an anode plate, also suspended in solution) to disintegrate and to be deposited on articles to be plated, sometimes places large quantities of small articles in revolving drums containing coating solution, where they are similarly treated by electro-deposition process; operates switches to increase

or reduce amperage of electric current; in small or less well equipped plants, rocks bath containing articles to be plated or superintends rocking; recovers residues of precious metals from baths, vats or drums which are fitted with special apparatus for this purpose; puts fresh anode plates into baths, vats or drums, as required; judges, by experience, length of time required for plating each type of article, amount of gold or other metal required in solution, amperage of current required, etc.; passes article, when plated, to finisher (283) g.v.; sometimes specifically designated, e.g., albrass plater, lock plater, nickel plater, silver plater, white metal plater.

plater, edge tool; a plater g.v. who covers high class edge tools, e.g., surgical instruments, with a coating of nickel.

plater, potter's electro; a plater g.v. who specializes in the plating of fittings and mountings for pottery and ceramics, e.g., crust stands, biscuit barrel tops, handles, but water jug covers, etc.

plater, silver, see plater; cf. silver plater (283) g.v.

plater and glider, see glider and plater.

silverer, as for plater.

283.—ENGRAVERS AND CHASERS

carver, gold and silver; (i) carves or sculptures statuettes and similar articles in gold and silver; (ii) carves designs on articles of precious metal, e.g., rings, etc., with hand tools called "gravers" and small chisels, from designs or models; sometimes also engraves designs.

case turner (watches); turns, on power lathe, rough edges of cases of watches or clocks which have been stamped, pressed or cast, finishing with various cutters, as required; may snap fastening or enlarges interior of case to suit movement.

chaser, cast work chaser, plate work chaser; sketches original design, or sketches from designs supplied to him, with pencil, on front of article (either cast work or solid plate of precious metal) to be chased; outlines design with hand scriber tool, and further develops it with small punch and chaser's hammer; then takes various small punches and chisels, works on front and/or back of article as required by design, thereby obtaining an intaglio effect; if necessary, fills hollow work temporarily with molten pitch, which, when solidified, forms solid base for punching operations.

embosser; sketches, in pencil, original design, or sketches from working drawing or design supplied to him, on front of article to be embossed; outlines design with hand scriber tool; fixes one end of a snarling iron, i.e., S-shaped piece of iron, in a bench vice, and puts article to be embossed in contact with other end, which is hooked, taps vice and snarling iron with a hammer, causing snarling iron to vibrate and thus knock out protuberances in article, by repeated blows from free end, thus obtaining embossed or recessed effect; finishes article with small chisels, files and sometimes gravers; does work of damascener (284) g.v., i.e., inlays work with gold or silver; fills hollow work temporarily with molten pitch which, when solidified, forms solid base for finishing operations.

engine turner, rose engine turner; operates, by hand, a machine consisting principally of a lathe, in chuck of which work is held, and a wheel attachment containing a cutter or cutters, so constructed as to cut either straight lines or dots, or conventional rose designs; fits cutters into machine, manipulates lathe with one hand and

wheel attachment containing cutters with other; sometimes also originates designs.

engraver, turbar, case; an engine turner g.v. decorating watch cases.

engraver; cuts patterns, heraldic designs, monograms, etc., on gold, silver or Britannia ware, by hand, using hand tools called gravers, or for cheaper work by machine of pantograph type, by electric cutter, or on a lathe; sometimes specifically designated according to kind of work or material, e.g., case engraver, cutlery engraver, dial engraver, gold and silver engraver, pen engraver, engraver, machine; an engraver g.v. operating a power-driven engraving machine, usually fitted with an attachment for holding copy from which he works (commonly a deeply engraved plate) and a pantograph; guides pantograph, by hand, over copy, and at same time brings to bear a revolving cutter over work to be engraved, varying pressure, as required, with a foot treadle; clamps various cutters into machine as required; sometimes also does small hand engraving work, see engraver.

etcher, who inscribes maker's name, trade mark, etc., on metal articles by "bitting" metal with nitric acid; cleans work, by hand, with carbon black, using turpentine or petrol as solvent, which he afterwards washes off with cloth; warms work over gas burner, and applies small quantity of white wax; uses scriber to outline, in wax, design or lettering, which may be original or supplied to him; when work is done, pours small quantity of dilute nitric acid over it; after specified time, during which acid bites into exposed metal, warms wax, and cleans it off by rubbing.

ring maker, carved; carves designs on plain gold rings with hand gravers, for cheaper work, with an electric tool.

284.—GOLDENITHE AND GEM SETTERS

bangle maker, see bracelet maker, stiff, har maker (gold and silver chains); makes base for watch chain and similar beider; and ring for attachment thereto, from gold or silver wire; draws wire himself or receives supplies of ready-drawn wire, if the former, uses a draw bench and draw plate, having a number of boxes of diminishing size, similar to those for ordinary wire drawing, cf. wire drawer (265), but worked by hand winch; winds wire on a steel rod, called a spit, either by hand or on a lathe; cuts wire, so wound, with a hand saw, or a small power-driven circular saw, then making a number of links; cuts bar with hand plan or other cutters; assembles bar, bangle and ring, using, for better class work, a gas flow pipe, solder, anodes for flux, etc., in these works merely closes parts together with pliers.

head maker (gold and silver); makes heads from gold or silver wire rod by (i) heating it with a hammer into steel dies placed on an anvil, (ii) passing gold or silver wire rod between rollers of a hand-operated roller machine, producing strips of beaded wire; drills strips in a machine drill and cuts them with pliers, piercing saw or other cutters into individual beads, (iii) passing wire rod into automatic stamping machine, adjusted to shape and cut beads to required size.

helt clasp and chainlink maker; makes belt clasps and chainlinks by (i) passing metal into automatic stamping machine, for repetition work; (ii) cutting sheet metal with hand shearing saw, and shaping it, by hand, with punches, hammer, etc., usually on a lead cake, i.e., a dome-shaped or other block of lead; sometimes also shapes wire with pliers and

ring maker, *gem*; a ringmaker *g.v.* who makes rings in which gems are afterwards set by gem setter *g.v.*
 ring maker, *jump*; makes "jump" rings for attachment to chains, bracelets, etc., to facilitate fastening on at arrival, ornamental, etc., draws gold or silver wire or sheet through draw-plates, to required thickness; winds wire or sheet on "spools," by hand or in a lathe to correct shape, cuts round metal by hand or with machine saw, into individual "jump" rings which are then ready for polishing, sometimes done by chain maker *g.v.*

set maker (gold or silver); assembles gold or silver component parts, which have been cut and shaped in hand press by pressworkers (280) *g.v.*, to form complete set, *e.g.*, tea set, coffee set; solders parts together, by hand, using blow pipe and solder or makes set entirely by hand, using hand tools.

setter, *gem*; jewel setter; makes setting, on mount received from gem mounter *g.v.*, by cutting, filing, drilling, etc., with hand tools, ready for reception of gem, prepares bearing, *i.e.*, raises a small portion of metal in mount to hold stone and places gem in position; raises "grains," *i.e.*, small portions of metal from mount, to fix gem in position; type of setting, *e.g.*, claw, milgrain, flush, cup varies according to requirements; sometimes specifically designated, *e.g.*, diamond setter, emerald setter, pearl setter.

setter, *jewellery*; a gem setter *g.v.*, employed as an outworker by large firms or factories.

sleeve link maker; *soffine* maker; (1) makes sleeve links throughout by hand, stamps parts out in a press, or hammers them to shape and size required with a hand hammer, draws gold, silver, or other wire (*cf.* drawer) and winds it on a steel rod, called a *spit*, cuts wire so wound, forming a number of separate links, and solders parts together with blow-pipe and solder; (2) takes component parts made by pressworkers (280), stampers (280) *g.v.*, or other workers, and assembles them together, with blow-pipe and solder, to make complete sleeve links.

snap maker, *see* *snivel* maker (gold and silver).

soffine maker, *see* *sleeve* link maker.
 sovereign purse maker; assembles gold or silver parts, which have been cut and shaped by gold and silver stampers (280) *g.v.*, solders and rivets them with blow pipe and solder and various small hand tools; does snap, catch and spring.

stud maker (gold or silver); assembles gold or silver component parts, which have been cut and shaped in hand press by pressworkers (280) *g.v.*, to form complete studs, soldering parts together by hand.

swivel maker (gold and silver); *snip* hooks; makes swivels or *snip* hooks; used as terminals for chain charms and other jewellery, from gold or silver wire, settings, or tubes, on a squille and lathe.

thimble maker, *gold*; makes gold thimbles by heating sheet gold into a series of diminishing holes in a steel die; solders on rim and any ornamentation required by hand, using blow pipe and solder.

285.—POLISHERS AND SCRATCH BRUSHERS.

brusher, *scratch*; *scratcher*; polishes articles, *e.g.*, plate or fork, during and after process of plating or gilding, by holding them against a fine wire brush revolving on a lathe, while a stream of lubricant, *e.g.*, soap and water, rise and spray over, etc., automatically supplied, keeps brush moist.

brusher, *wire*; a scratch brusher *g.v.* who polishes plated parts of machines, *e.g.*, sewing machines, cycles and

motors, using water as a lubricant, and a coarse wire brush.

brusher-in, *scratch*; a scratch brusher *g.v.* who removes scratches from surface of jewellery, or gold, silver or plated articles.

buffer; *sander*; prepares gold and silver articles for polishing *g.v.*, removes surface marks from jewellery, and polishes metal articles ready for plating, by holding articles against a leather or felt-lace wheel revolving on a lathe, the wheel being sprinkled with fine sand or other abrasive, mixed with oil or grease, sometimes specifically designated according to abrasive used, *e.g.*, sand buffer, or, according to article buffed, *e.g.*, hollow-ware buffer, spoon and fork buffer.

burnisher, *gold and silver burnisher*; rule, by hand, gold and silver articles, and imitation jewellery with a burnisher, a tool of polished steel (or agate and other stone) lubricated with soap solution, thereby closing pores of metal and producing polished surface.

cutting-out's assistant, *see* *rubber*.

doller (silversmith's); a lathe polisher *g.v.* who polishes the inside of silver or electroplate hollow-ware by means of a revolving dolly, *i.e.*, a wooden tool covered with sawdust or woolen and silken threads.

finisher; (1) removes blemishes from surface of plated articles and polishes, using a machine lathe fitted with a revolving buff, dolly or soap, which is greased with lime, whiting, rouge or other abrasive, (2) gives final polish to jewellery to remove marks, scratches or blemishes and to improve colour by using a buffing lathe or by rubbing article, by hand, with rouge, washing it in warm water, and finally drying it, and polishing it with a leather; sometimes specifically designated according to material used or article worked upon, *e.g.*, silver finisher, plater's finisher, spoon and fork finisher.

mopper, *see* *polisher*, *lathe*.

mopper, *grease*; a lathe polisher *g.v.* who polishes articles on a "bob" or may of brass or other material, on which is rubbed an abrasive composition over grease powder.

polisher, *band*; (1) rubs colouring polish or rouge on silver plate, etc., and after polishing, wipes off rouge with a wash leather; washes article in warm water, and dries it with a leather; (2) polishes gold and silver settings for jewellery, by hand, with sandpaper, rough stone, and buff; washes article in hot water with soap, and dries it in boxwood or hot sawdust; for finer settings works with setting third soaked in paste; sometimes specifically designated, *e.g.*, gold polisher, jewellery polisher, plater's polisher, silver polisher, spoon and fork hand polisher; *cf.* *lathe* polisher.

polisher, *lathe*; mopper; polishes articles of gold, silver, and electroplate with a buff mounted on a lathe, using such abrasives as sand, lime, pumice, emery or rouge; removes the maximum amount of metal in the process; sometimes specifically designated, *e.g.*, case polisher, gold polisher, hollow-ware polisher, jeweller's polisher, plater's polisher, silver polisher, spoon and fork polisher.

rubber; *cutting-out's assistant*, *silverer's assistant*; assists cutting-out (287) *g.v.* or press worker (280) *g.v.* by removing "lash" or uneven surfaces, with a file, or by rubbing on a file bed.

rubber-down; rule down, by hand, on a piece of specially prepared leather, stone, gold or silver metal parts which have been cut or stamped in a press, thereby removing roughness and producing a smooth surface in preparation for soldering.

sander, *see* *buffer*.

scratcher, *see* *brusher*, *scratch*.

silverer's assistant, *see* *rubber*.

286.—PRESSERS, SAW PIERCERS, AND STAMPERS.

blank cutter (spoon and fork); a pressworker *g.v.* who operates a power-driven press fitted with cutting dies, to cut out spoon or fork blanks; says sheet metal on bottom die, and operates treadle to cause top die to cut blank, sometimes also files top and bottom dies in press.

marker, *trade marker*; stamp manufacturer's registered initials or trade mark on finished articles, either by hand stamp, or by power-driven press; sometimes marks blanks with hand tools.

piercer, *piece worker*; (1) lays plate of silver or white metal in die of a hand-press piece, or power press, bringing down a cutting tool which pierces holes or designs in plate; (2) *see* *piercer*, *saw*.

piercer, *saw*; *piercer*, *piece worker*; cuts out designs, letters, etc., on plate and jewellery, with a fret saw, working to paper design passed on the metal; sometimes specifically designated, *e.g.*, gold and silver saw piercer.

pressworker, *press girl*, *press hand*, *presser*; bench *stamper*, *gold and silver stamper*, *pusher*, *drawer*; feeds a hand, screw, or power press, used for cutting out or piercing, shaping and pressing sheet or plate metal to form component parts of electroplated ware, gold or silver or imitation jewellery; sets press in motion by moving lever or pressing treadle; sometimes also changes dies in press; sometimes specifically designated, *e.g.*, gold and silver pressworker, pressworker (imitation jewellery); a pressworker *g.v.* employed in imitation jewellery trade.

ponger; a pressworker *g.v.* who cuts out punge of tork in a press.

puncher, *see* *pressworker*.

stamper, *benob* stamper, *gold and silver stamper*, *see* *pressworker*.

stamper, *bolster*; stamps, with press and dies, hollow metal bolsters used in making fish knives, forks, servers, etc.

stamper, *drop*; lays sheet metal on bottom die of stamping press; pulls a rope, drawing other die, which is weighted, to top of vertical steel runners, between which it runs; releases rope, allowing weighted die to fall, and strike with force, metal frag on bottom die, replaces die, as required.

stamp worker, *kick*; a pressworker *g.v.* using a press which is set in motion by kicking a leather strap with the foot.

287.—SILVER AND WHITE METAL SMITHS.

alibaba worker; a silversmith *g.v.* working in alibaba, *i.e.*, a white metal, assembler, *see* *maker-up*.

brassier; joins together by process of brazing or soldering with a brass solder or spelter, component parts of goods which are to be electro-plated. Britannia metal article maker, britannia metal smith, or *for* silver-smith.

British plateworker; general term for persons working in British plate, *i.e.*, pewter, and includes stamper (286), spinner, mounter (288), chaser (289) *g.v.*

casting dresser, *see* *filer*.

cropper, *see* *cutting-out*.

crust band, *crust stand* maker; *jelly band*; general term for any operator engaged in mounting or fitting together crust stands; may be a silversmith *g.v.* or a mounter (288) *g.v.* or a piercer worker (286) *g.v.*
 crust top maker; pieces hinges and knobs on spun or stamped rims and covers of pokers and snuff boxes, cigar drawers, salt cellars, etc., using blow pipe and solder and small hand tools.

cutler, silver; a silversmith *q.v.* who specializes in assembling blades and handles of silver knives, which have been stamped out by pressworker (286) *q.v.*, using blow pipe and solder and hand tools; sometimes also stamps out blades and handles.

cutler-out; *cropper, cleaver*; cuts metal from which electro-plated articles are to be made, with hand or power-driven shears, or under dies.

dish cover maker; (i) a spinner *q.v.* engaged in shaping bodies of dish covers; (ii) a miter and fits bending, handle, or knob stamped or spun body to make dish cover, using hand tools, blow pipe and solder, etc.

filer; *cutting dresser, grinder*; removes with a file, by hand, or in an emery wheel, rough edges and surface irregularities from cast, blanked out, or stamped articles, such as cutlery or jewelry; sometimes specially designated according to material used, or article worked upon, *e.g.*, silver filer, spoon and fork filer, etc.

fitter, see maker-up.

flat hammer; *hammerer, planisher, raiser*, silver-raiser; shapes articles from sheet metal by beating them with a hammer or mallet on an anvil, or shaping bench, and various stakes and hammers.

fluter; *raiser, silver raiser*; (i) fits teapot or other article with special "chasing" tools and attaches to pitch block; allows pitch to set firmly, and makes fluting in article by gently tapping a steel chasing tool along set lines; (where fluting is raised, article is made so that whole back to be fluted; if raised, arched, and flutings are obtained by making regular indentations over this area); (ii) flutes sides of teapot or other article by gently tapping snarling iron, one end of which is fixed in vice and the other held against inside of pot.

grinder, see filer.

hammerman, see flat hammerer.

handle maker; fits, and brazes or solders together, stamped embossed parts of handles of teapots, coffee pots, etc., and files and cleans the handles ready for fitting, sometimes specially designated according to material used, *e.g.*, German silver handle maker, nickel silver handle maker, silver handle maker.

handler; fixes, pins with wire, and cements handles on teapots, coffee pots, etc.

hollow-ware maker (electro-plate); a silversmith *q.v.* engaged in making electro-plated hollow-ware.

jolly hand, see cruet hand.

jobber and repainer, as for jobber and repainer (284) *q.v.*

maker-up; *jeweller's maker-up, silver maker-up; assembler, fitter, putter - together, silver putter-together, wireworker*; a silversmith *q.v.* who solders, on wire, or rivets together bodies and parts of silver or other white metal articles after they have been cast or shaped by hand, by spinning, or by stamping; *cf.* mounter (288).

modeller; *pattern maker*; a goldsmith (284) or silversmith *q.v.* who makes models, by hand, in plaster, wax, or metal, *i.e.*, gold, or silver or other white metal, from his own or from other designs, drawings or figures, or from plaster casts, to be used as patterns for the sinkers and tool makers in fashioning dies or cutting and piercing tools for medals; *cf.* designer (289).

mount maker, silver; cuts out from silver plate, with hand cutting tools, mounts for articles such as pipes or walking sticks; spins them to shape on a spinning lathe, or bends them to shape by hand solders together ends of mounts after they have been bent, using blow pipe and solder, and sometimes fits them on article; sometimes further designated according to article made, *e.g.*, pipe mount maker, stick mount maker.

nevada silver worker; a silversmith *q.v.* working in composite metal known as nevada silver.

nickel worker, nickel silver worker; a silversmith *q.v.* working in nickel silver.

pattern maker, see modeller.

planisher; (i) see flat hammerer; (ii) see wheeler.

putter-together, silver putter-together, see maker-up.

raiser, silver-raiser; (i) see flat hammerer; (ii) see fitter.

repainer; a silversmith *q.v.* engaged on repair of articles of jewellery, plate, etc.

set worker; a maker-up *q.v.* who specializes in production of articles in sets, *e.g.*, teapot, sugar basin, cream jug, etc.

shearer, see cutter-out.

silversmith; makes articles of silver, or of various white metals, *e.g.*, britannia metal, alhata, nevada silver, etc., by hand, either by beating them out from sheet metal, or by assembling and soldering together cast or stamped parts; uses some of all of a great variety of large and small tools, including blow pipe and solder, files, hammer and anvil, moulds, lead cakes and similar devices for obtaining various shapes, piercing saw and bench vice, etc.

smith, silver; as for silversmith; *cf.* tinmith (286).

smith, german silver; white metal smith, as for silversmith.

solderer, hard; solders together component parts of jewellery, plate, etc., made of gold or other precious metals using a silver or brass solder, *i.e.*, one which is as hard as the metal on which it is used, and obtaining the necessary heat by means of a blowpipe or a muffle furnace; *cf.* braiser.

solderer, soft; solders together component parts of cheaper goods, usually made of nickel silver or copper, using a softening alloy of lead, or of lead and zinc, which fuses at a low temperature.

spinner; shapes sheet metal articles, such as bowls, dish covers, etc., by pressing a bluntly pointed polished steel tool against sheet metal so it revolves in a lathe, and so forces it to take shape of a revolving mould or pattern.

spoon and fork worker; stamps out blanks of spoons and forks in a power-driven or hand press, *cf.* press worker (286); hammers blanks to shape by hand, on special moulds.

thimble maker, silver; receives thimble in the rough, after it has been pressed into shape, by machine, by pressworker (286) *q.v.*; cuts it to required size out a little and finishes off by boring, skimming, and turning.

wheeler; *planisher*; smooths metal surfaces on a hand-operated or power-driven wheeling machine, consisting of two revolving wheels, between which metal is passed to rub and other pieces of irregular shape that are left after stamping.

white metal worker, as for silversmith.

wireworker, see maker-up.

riveting, soldering, etc., using various small hand tools and blow pipe and solder.

mounter, brist; a pipe mounter *q.v.* who mounts pipes made of brist (bruyere) rust.

mounter, electro, as for mounter, silver.

mounter, gold and/or silver, see mounter.

mounter, hollow-ware (earthenware), as for mounter, silver.

mounter, jobbing; an outerworker employed by jewellers (retailers), jewellers manufacturers, or factors, as a mounter *q.v.*

mounter, oak; fixes mounts of brass, britannia metal, nickel silver, or silver plate, to oak chandeliers, candelabra boxes, trays, liquor frames, etc.; burs holes in wood and drives in small screws or rivets.

mounter, pipe; pipe mount fier; a mounter *q.v.* who cements silver mount on to stem of pipe.

mounter, set; a mounter *q.v.* who fills in with soft or hard solder back of beaded or other design which forms ornament on box and coffee service sets, enters dishes or other work; mounts pressed or stamped parts in position, and gets article ready for polishing.

mounter, silver; fits silver mounts on to metal, wood, earthenware, and glass articles by means of plaster of Paris or by small rivets, nails, etc., and/or soldering.

mounter, stick; cuts out, on machine cutter or with hand shears, gold and silver bands or other ornaments and fits them by hand, on to umbrellas or sticks with cement, rivets, etc.

pipe mount fier, see mounter, pipe.

298.—OTHER SKILLED WORKERS.

annealer; *softener*; anneals precious metal during or after milling process, by heating in a reverberatory furnace; uses hand tongs to charge and discharge furnace with metal, and times also feeds furnace with coke to maintain necessary heat.

assay assistant, assayer's assistant (not assay office); assists assayer in analysing purity of precious metals or composition of alloys thereof.

baster, gold and/or silver; takes thin sheets of gold or silver and leaves them with sheets of parchment, to form a "back" *q.v.*

bayer; takes thin sheets of gold or silver and leaves them with sheets of parchment, to form a "back" *q.v.*

bender; takes thin sheets of gold or silver and leaves them with sheets of parchment, to form a "back" *q.v.*

bender; takes thin sheets of gold or silver and leaves them with sheets of parchment, to form a "back" *q.v.*

bender; takes thin sheets of gold or silver and leaves them with sheets of parchment, to form a "back" *q.v.*

bender; takes thin sheets of gold or silver and leaves them with sheets of parchment, to form a "back" *q.v.*

bender; takes thin sheets of gold or silver and leaves them with sheets of parchment, to form a "back" *q.v.*

bender; takes thin sheets of gold or silver and leaves them with sheets of parchment, to form a "back" *q.v.*

bender; takes thin sheets of gold or silver and leaves them with sheets of parchment, to form a "back" *q.v.*

bender; takes thin sheets of gold or silver and leaves them with sheets of parchment, to form a "back" *q.v.*

bender; takes thin sheets of gold or silver and leaves them with sheets of parchment, to form a "back" *q.v.*

bender; takes thin sheets of gold or silver and leaves them with sheets of parchment, to form a "back" *q.v.*

bender; takes thin sheets of gold or silver and leaves them with sheets of parchment, to form a "back" *q.v.*

presses model (made of plaster, lead, or other less metal) of article to be cast into sand; in case of hollow articles, makes core in same way in a smaller mould, and places it in position in large mould; smokes surface of sand in mould (in flame of candle or otherwise) to prevent it sticking; by other half of mould, prepares other half of mould in same way, and clamps two halves together with screws or clamps; melts gold, silver, or other metal in crucible or furnace; pours molten metal through hole in top of frame, through which it flows into hollow made by model in sand; when metal has cooled, removes moulded article from mould, sometimes specifically designated, e.g., gold and silver custer.

caster, britannia metal; a custer g.e. who makes britannia metal castings, using brass moulds.

caster, coarse; a custer g.e. who executes common or rough work.

caster, figure; a custer g.e. who specializes in casting solid figures, mountings, or ornaments in precious metal; uses sand moulds and previously made models, which he presses into sand before making cast; is sometimes also a designer g.e.

caster, fine; a custer g.e. engaged upon lighter or more delicate work, which is cast in prepared fine sand, makes sand moulds and cores, by hand.

caster, ingot; see **caster, strip-caster, nickel silver;** nickel silver-ingot custer; a custer g.e. who weighs out accurate weighing scales required quantities of various metals for making nickel silver; melts metals, so mixed, in crucible over furnace, and pours it into cast-iron moulds to form strips or ingots.

caster, strip, skillet custer; ingot custer; a custer g.e. who casts gold or silver into strips or skillets, i.e., long thin bars of metal, in ingot moulds.

chain maker (machine); fixes between spindles of machine guides end of wire through various shaping and cutting tools in machine; switches on power-drive of machine, which forms links of chain and automatically slides them; adjusts machine; sets multiple tools with which machine is fitted, and replaces with new tools, when necessary; removes faulty links, if any.

colobound art worker; cuts or stamps from sheet copper, brass, silver, etc., shape to be worked upon; solders brass or silver wire to surface of sheet to produce outlines of design; fills in spaces with vitreous enamel of various colours according to design, blending where necessary, fires enamel in oven, grinds and polishes surface to a high polish.

coluber (gold) appendix; by means of wire gold jewellery or plate containing alloy, in vat or tank containing an acid solution which removes alloy from surface, leaving a skin of pure gold.

damaeaser in gold and silver on steel; (1) outlines portions of article to be inlaid, or damascened, and roughens portion outlined with a file, called a raffle, beats into this roughened base, with a hammer, a fine strip of precious metal, which adheres thereto; (2) lays, or inserts, gold or silver design; (3) places the portion of steel by electro-deposition; "steps out" portion to be left unplated by painting it with brush and bituminous paint; dips article in plating vat, where gold or silver design is deposited on unplated portion of steel by action of electric current on metal in suspension in plating compound, e.g., parcel gilder (287).

depositor's assistant; see **dipper.**

depositor's fitter; assembles by hand and fits together, using hand tools and blow-pipe and solder, gilded, plated or silver articles or parts, silver-plated articles or parts have been gilded, usually re-assembles parts of articles

which have been taken to pieces for purpose of plating.

designer, gem designer, jewellery designer; designs and makes drawings of original patterns for jewellery or electro-plated goods; makes patterns for use by caster g.e. in making headpins, knobs, sockets, etc.; often also models in plaster of Paris original from which article is moulded, and afterwards casts in silver or other white metal; c.f. modeller (287).

dipper; depositor's assistant, picker; removes tartrate or oxide from surface of articles to be plated by dipping them in acid, or by immersing them, for a longer time, in a solution of acid; takes articles out of dip or pickle, and rinses them in clean water; soaks them in dilute acid with handle brushes, and dries, by rubbing them in hot sawdust.

drawer, draws articles into required shape, from gold or silver sheet, or wire, on a lathe or draw plate.

drawer, gold and/or silver wire; threads filed end of wire through hole in die, and fixes it, by hand, on power-driven or on a draw-bench, which may be power-driven or worked by hand, with a wheel; draws wire through a series of diminishing holes in a die made of steel or, for fine wire, of pierced diamonds, until it is reduced to diameter required.

drawer, platinum wire, or for drawer, gold and/or silver wire.

draw-standmarker; scrapes minute quantity of precious metal with hand tools of article to be assayed, for purposes of analysis; also stamps hall-mark and assay sign on articles, using hand stamp and hammer, and hand-manipulated press containing dies.

dresser, gold and/or silver wire, see trimmer.

enameller, jeweller's enameller; grinds, by hand, into fine powder, crushed vitreous enamel, used for enamel; mixes powder with water to fluid consistency, with small hand tools, places small quantity of enamel on silver or gold sleeve link or other article to be enamelled; withdraws superfluous water from enamel with a cloth or blotting paper; places work on piece of firebrick and transfers it, with hand tongs, to small gas-heated muffle furnace, in which he leaves it for specified time; withdraws article from furnace and allows it to cool; files it with carbon or emery file, and finally polishes or finishes it by holding it against power-driven abrasive wheel or dolly revolving on a lathe.

finer, see trimmer.

flattener, gold and/or silver; gold and/or silver flatter; see roller, gold and/or silver.

furnaceman; charges with metal, precious metal, used for annealing, precious metal, and discharges it when annealing process is complete; also stocks furnace, if furnace is coke-fired.

gilt jewellery maker, see jeweller, imitation.

gold nib maker, gold nib pen maker; gold pen maker; general terms for all workers engaged in any process of making gold nibs from gold sheet, including gold nib grinder, sweeter, polisher (283), splitter and preparator g.e.

gold nib roller; raises or shapes blanks for gold nibs to required curvature, with hand hammer or under power stamp or press fitted with special hammer-banded dies.

gold nib splitter; places gold nib in holder, close to copper wheel revolving at high speed on a power-driven lathe; presses nib on revolving wheel, which makes a slit therein, running from point to hole previously pierced in nib by gold nib preparator g.e.; applies wet emery to revolving wheel with a brush, as required.

gold nib stamper; blonker (gold nib); stamps blanks for gold nibs out of sheet gold with special press.

gold nib sweeter; iridium pointer; lays a number of gold nib blanks on porous stone block; puts a small quantity of iridium or semi-iridium oil point of each blank with hand tongs; uses a small brush to direct gas jet from a mechanical blow lamp on each point, melting gold and causing it to amalgamate with iridium; nib is then ready for gold nib grinder g.e.

gold pen maker, see gold nib maker, grinder, gold nib; plater, gold nib holder, and holds point, which is made of iridium or semi-iridium, against emery wheels revolving on a power-driven lathe; applies emery powder to emery wheels with a brush, as work proceeds.

grinder (precious metal refuse); feeds bepper head of grinding mill with dies or sweepings of jewellery workshop, using a small shovel; removes sweepings, after grinding, for recovery of valuable material therefrom; cleans machine carefully, so as to preserve particles of precious metal entering the crevices.

hall marker, ball mark stamper; stampor (Assay Office); stamps ball mark and assay sign on gold and silver articles, using small lead press fitted with dies, or power press, replaces dies as required; also done by drawer and marker g.e.

heat weigher; weighs out correct proportions of metals to be used in each "beat" (casting operation), e.g., copper, nickel, and spelter, for nickel silver, and so on.

iridium pointer, see gold nib sweeter.

jeweller, imitation; fancy jeweller; gilt jewellery maker; general terms for any worker engaged in making jewellery from base metals, including custer, burnisher (285), stamper (286) etc.

jeweller, working; keeps a retail jeweller's shop and repairs jewellery, watches and clocks in attached work's shop.

jewellery and plate repairer; a goldsmith (284), a silversmith or white metal smith (287) g.e. who repairs jewellery and silver or plated goods.

lapper, jeweller's lapper; cuts small facets on links of chains by vertical fast-running pewter wheels coated with emery paste; also cuts flat surfaces on brooches, etc.

leaf cutter, gold and/or silver; cuts to required size, beaten gold or silver leaf, used in embossing leather, gold and silver blocking, gold and silver lettering etc., using a waggon, i.e., a wooden or cane tool with cutting edges; interleaves out pieces of gold or silver leaf with tissue paper to form books of twenty-five pages.

melter, see custer (gold or silver).

meter, hullion; gold and/or silver meter, melter (Royal Mint); bullion smelter, gold and/or silver smelter, smelter; places refined gold and silver in crucible, and melts in reverberatory or cupola furnace; casts into skillets, i.e., flat slabs, or ingots for use of rollers, wire drawers g.e., etc.; attends to fire of furnace, or, if furnace is gas-fired, regulates heat by means of taps, etc.

meter, platinum, or for meter, bulion.

mixer, metal mixer; mixes copper, nickel, and spelter in correct proportions for nickel silver; mixes copper, tin, regulus, zinc, or antimony, for britannia metal; lead and tin for soft solders; silver and copper or brass wire for silver and copper and tin for brass solders; places wire in a crucible, heats them until they melt, stirs them with a metal stick to mix them roughly, and pours them into ingot moulds.

smelterman; a farmaceuton g.o. in charge of a smelter furnace, charges and discharges furnace with metal, and maintains temperature at required level; if furnace is coke fired, also feeds it with fuel.

pickler, see dipper.

plate maker, gold and/or silver; polishes and levels base metal, which is to receive plating of gold or silver, by holding it against revolving mop, on which plates sheets or strips of gold or silver thereon; puts whole into heating furnace in which metals are "sweated," i.e., heated to point of fusion; maintains correct temperature in furnace by regulating gas flame; at point of fusion transfers metal, using hand tongs, from furnace to hydraulic press; manipulates press to press metals and cause gold or silver to adhere to base metal.

platinum capsula maker; shapes capsules or "trays" for use in incubation in quantities of 100,000, electrolytically by hand, using hand tools and moulds; feeds machine press with metal, by hand, and operates press by means of levers.

preparer; puts together links, etc., of flexible bracelets with wire, using small hand tools; links are then ready for soldering.

preparer, gold nib; general term for workers engaged in any process of gold nib making, other than gold nib grinder, sweater, polisher (285) and sifter g.o.; may perform one or more of following operations: stamping out blanks from rolling sheet gold in a hand press; passing blanks between small power-driven steel rollers, to harden them; placing them in a power-driven tumbling machine, for further hardening; placing nib in socket of shaping press, which gives slight curvature to lower portion of nib, placing nib in socket of piercing press, to pierce hole in nib; placing nib in stamping press to stamp name of maker and trade mark thereon, annealing nib, by holding it with pliers in gas flame; raising nib, by putting it in socket of dropping stamp press, pulling weighted drop stamp to top of press with a rope or strap, and releasing drop stamp, which falls on nib and gives final curvature thereto; placing nib in small container attached to wire, and dipping it in small vat of acid to remove oxide, and finally rinsing it in clean running water.

refiner, albata; a white metal refiner (278) g.o. engaged in alloying metal by special formula to produce "albata."

refiner, bullion; gold and/or silver refiner; refines gold or silver by treating it, by hand, with various acids in succession, in porcelain containers; after each process, takes residue, from which impurities have been partially removed by acids, out of container with a ladle, repeats process until required degree of purity, or fineness, has been attained.

refiner, platinum; as for refiner, bullion.

ring maker (not gold or silver); makes rings by beating into shape with hand tools on tribble, see ring maker (284), guiding metal, in compound consisting largely of brass, and brazing ends together with blow pipe and solder.

roller, gold and/or silver roller; gold and/or silver plater; gold and/or silver sifter; passes sheets, i.e., long flat moulds about one inch thick, of gold or silver, between power-driven revolving steel rollers many times, to reduce them to strips or sheets; sometimes also anneals metal after each rolling but usually passes to annealer g.o., sometimes also rolls or draws gold or silver wire, see gold and/or silver wire drawer.

roller (gold nib), gold nib roller; a roller g.o. who rolls out small piece of gold, intended for nib, after it has been blanked, in order to harden it;

takes care to feed blank so that iridium point is protected by slot in rollers.

roller, ease metal (precious metals); a roller g.o. who rolls gold or silver for watch cases.

roller, cross; spreads or flattens out, in a heavy cross rolling machine, end of a spoon or fork blank, in preparation for shaping of bowl or cutting of prongs.

sand blaster; removes rough surface and edges from white and bronzite metal coating by sand blasting, i.e., by projection of a fine stream of sand through a nozzle by a forced draught of air or steam usually within an enclosed machine or chamber.

smaller, bullion smelter, gold and/or silver smelter, or smelter, bullion, smaller, see smelter.

stamper (Assay Office), see ball marker.

stripper, gold; strips gold from worn articles, in preparation for re-plating, or from newly manufactured articles, before polishing, to remove dust, or to remove "fire" caused by heat in soldering; immerses articles for a few seconds in a pickling vat, filled with a solution of hydrochloric acid and sulphuric acids, until action ceases; then swirls them under a tap of running cold water.

stripper, silver, as for stripper, gold sweep sampler; prepares by hand screening and sifting samples of sweepings from gold and silver workshops, ready for assayer (886) g.o. sweep smelter (not employer); charges furnace with "wreap," i.e., filings, etc., from gold or silver workshop; removes slag, as may be necessary, with hand-manipulated scoop; ladles out metal at end of operation.

theoretical jewellery maker; an imitation jeweller g.o. who specialises in jewellery for use in theatrical production.

trimmer; fier, gold and/or silver wire dresser; files, by hand, rough edges of gold or silver strip or wire, after it has been drawn, in preparation for its use in jewellery manufacture.

turner; operates treadle or power lathe, and turns knobs, joints, etc., out of precious metals.

watch chain maker (not gold or silver); makes links of brass, copper, or other wire, by winding wire on coils, by hand or on a lathe, and cutting wire as wound with hand piercing threads link together by hand to make chain, and solders joints with blow pipe and solder.

wire filer; makes rolled gold wire by rolling or drawing, by machines, thin coating of gold over wire of base metal.

289.—OTHER WORKERS.

backer; roller's assistant; assists roller (284) g.o. at back of rolling mill; lifts and handles heavy bars and sheets.

boiler, see cleaner.

cleaner; boiler, potasher, washer-out; cleans out, in vitriol, stamper's and silversmith's tools; swirls articles in a solution of potash preparatory to plating them, and dries them in a sundry after heating.

glider's assistant; assists glider (282) g.o., duties similar to those of plater's assistant.

plater's assistant, plating assistant, electro-plating assistant; attaches pieces of wire to articles to be plated, and hangs them in electrolytic bath; assists plater (282) g.o. generally.

potasher, see cleaner.

roller's assistant, see backer, scourer; holds articles to be cleaned, after pickling process, against a power-driven scouring brush made of horse wire; may increase scouring action by dipping article into solution of caustic potash; may sometimes perform operation by hand, using hand brushes; cf. cleaner.

set mounter's assistant; helps generally at set mounter's bench (289), keeps solder pots hot; performs simple mounting operations, in process of learning trade.

stickler-out; connects metal rims, etc., on glass articles, with plaster of Paris or other cement.

vat hand; (1) assists plater (282) g.o. in process of dipping metal articles, to coat them with silver, etc.; (2) general work in workshop employed in process of electro-plating, e.g., cleaner, scourer, potasher, dipper.

washer, gold (electrolysis); washes and cleans plated articles, by hand, with brushes and clean water, after dipping process.

washer-out, see cleaner.

wire and dryer-out; a plater's assistant g.o. who threads small articles to be plated on wire for plater (282) g.o. to hang from electrodes in plating vat; after articles are plated and washed, dries them in vessels containing boxwood sawdust.

ORDER IX.—ELECTRICAL APPARATUS MAKERS AND FITTERS (NOT ELSEWHERE ENUMERATED) AND ELECTRICIANS.

Sub-Order 1.—Electrical Apparatus Makers and Fitters (not elsewhere enumerated) and Electricians.

300.—EMPLOYERS AND MANAGERS.

assistant staff engineer (G.P.O.); assists staff engineer g.o. and is in charge of a section of the engineering work in connection with one of the services or headquarters divisions of the Post Office Engineering Department.

assistant superintending engineer (G.P.O.); assists superintending engineer g.o. and relieves him when necessary; is second in charge of the engineering work in one of 15 main territorial divisions of Post Office Engineering Department.

cable engineer (cable ship); in general control of operations on cable ship, or in connection with raising and lowering of cable from and to ocean bed; supervises manipulation of cable on dock, and testing and re-pairing of cable; directs captain of cable ship (733) g.o. as to moving of ship from point to point; in small cable ships duties often assumed by captain.

chief wireless engineer (aerodrome); in general control of staff of wireless engineers (345) g.o. and wireless operators (754) g.o. at aerodrome; responsible for installation, maintenance and repair of wireless apparatus in flying machines and in wireless offices at aerodromes; tests new installations to make sure that they are in good working order, carries out experiments in wireless telegraphy and telephony.

electrician-in-charge (cable ship), see submarine superintendent.

principal power engineer (G.P.O.); is responsible, under engineer in chief, for design, installation and control of plant for generation, transmission and use of electricity for lighting and power services in Post Office; also responsible for pneumatic tubes, heating and ventilation, etc., and for P.O. London railway.

staff engineer (G.P.O.); a headquarters officer responsible under engineer in chief for the direction and control of whole of civil, electrical and mechanical engineering work in connection with one of the services or main divisions in Post Office Engineering Department.

submarine superintendent (cable ship); electrician-in-chief; is responsible on shore under chief engineer for laying, maintenance and testing of submarine cables; has general responsibility for efficiency of cable ships and depots; receives testing reports from depots; issues orders to explain (733) g.v. or cable engineer g.v. for examination and repair of old cables and for laying of new cables.

superintending engineer (G.P.O.); is immediately responsible, under engineer in chief, for administration and control of Post Office engineering works in one of 15 main territorial divisions of Great Britain.

301.—FOREMEN AND OVER-LOOKERS.

assistant engineer (G.P.O.); (i) at headquarters and in technical sections in superintending engineers' districts, performs in executive detail, work carried out by executive engineers, g.v.; (ii) in territorial sections, assists executive engineer g.v. and relieves him when necessary.

chief electrician; in charge of men employed as electricians (307) g.v., or as wiremen (311) g.v.; inspects work in progress; issues instructions; under direction of engineer is responsible for efficient carrying out of work on job.

chief electrician (cable ship); carries out at sea electrical tests of submarine cables, by means of electrical apparatus, either as sea bottom or when hoisted on to deck of cable ship for repair; furnishes reports of tests to submarine superintendent (300) g.v.; supervises 2nd, 3rd and 4th electricians, etc., and jointers and assistant jointers carried on cable ship.

chief inspector (Post Office Engineering Dept.); commands under executive engineer g.v., a group of inspectors and workmen; prepares estimates for new works and renewals; supervises works in progress, whether carried out by contract or by direct labour; decides important bye-laws and contracts; prepares development schemes; carries out maintenance, testing and inspection duties; is also employed at headquarters.

executive engineer (G.P.O.); (i) at headquarters, is responsible under staff engineer (300) g.v. for research, design, standardization, testing, etc., in connection with civil, electrical and mechanical engineering works of G.P.O.; (ii) in superintending engineers' districts is either in control of technical section of superintending engineer's office, or is employed as a technical engineer in control of a territorial division and is responsible to superintending engineer (300) g.v. for whole of engineering work on a territory.

inspector (Post Office Engineering Dept.); makes surveys for minor works, and assists engineers and chief inspectors in surveys for more important works; performs testing duties; assists generally in supervision of minor staff employed on construction and maintenance work both indoors and outdoors; checks and directs running of motor transport vehicles; takes charge of a shift as power station; assists in education of youths in training; may also be employed at headquarters.

302.—ACCUMULATOR MAKERS AND PASTER.

accumulator assembler; places positive and negative plates in proper position in a jar or cell; inserts between web part of plates a wooden or rubber partition, known as a separator, to keep plates from touching; fills up jar or cell with sulphuric acid of correct specific gravity; if jar or cell is made of hard rubber, glass or lid by pouring a melted compound of pitch round edges of lid.

accumulator erector, accumulator installer, see battery fitter.

accumulator maker; battery maker, storage battery maker; general term for workers who make electric accumulators by putting together and building from components; includes plate caster (183), leader burner (242), assembler, paster, former g.v.

accumulator repairer; repairs plates or containers of electrical accumulators, by replacement of parts, or by lead burning; in latter case, molten lead with oxy-hydrogen or oxy-gas flame into mould or former, or fuses together broken parts, or attaches lugs (handles) to plates by some means.

battery fitter; accumulator erector, accumulator installer; selects or installs series of accumulators, such as lighting batteries, power batteries, on site; places cells in proper position on appropriate stands, e.g., trestle; connects cells either by burning a lead strip in an oxy-gas or oxy-hydrogen flame from positive to negative bars of adjoining cells or by a lead-cored belt, which is secured from lug to lug by nuts; fills cells with sulphuric acid from a drum and connects up terminals of battery to a dynamo or switchboard; superimposes first charge, i.e., connects battery to charging terminals and to voltmeter and hydrometer to test specific gravity of acid; records specific gravities and voltages from time to time during charge; examines conditions of plates and makes all necessary adjustments to ensure that battery can take full load for which it is built.

battery maker, see accumulator maker.

former, plate; storage battery former; places plates, as received from paster g.v. in correct sequence (alternately positive and negative) in a forming tank a lead-lined wooden container filled with sulphuric acid; joins plates in sequence by fusing strips of lead on to lugs with oxy-hydrogen or oxy-gas flame, so as to form complete circuit; when all plates have been duly connected up, connects terminals to switchboard; switches on electric current, thereby charging plates; removes plates from forming tank and examines them before passing them to washer g.v.

lead worker (accumulators); general term for any person, engaged in making or pasting accumulators, who works in lead, e.g., a worker casting or burning lugs together, or making or repairing accumulators and storage batteries, including accumulator erector, accumulator maker, accumulator repairer g.v.

maintenance man (accumulators); a battery fitter g.v. employed by accumulator manufacturers to make periodical visits to places where they have installed batteries; examines accumulators to see that sulphuric acid is at correct level in cells; repairs or replaces, if necessary, any broken cells; fuses broken parts together, or fuses new parts on to battery, by lead-burning process, using oxy-hydrogen or oxy-gas flame.

paster; (i) takes grids of accumulator cells and fills them with paste (a mixture of lead compounds), by pressing or rubbing paste into the big and small spaces, passes grids under a press to put as much paste into interstices as possible, or bands to paster's trimmer g.v. for pressing process; (ii) passes grids into or under a machine, which automatically presses paste into them by operation of a lever; feeds machine with paste unless this also is done automatically; often specially designated e.g., accumulator paster, secondary battery paster, storage battery paster.

paster's trimmer; cleans plates as they come from paster g.v. of superfluous

paste by hand; places plates on racks in drying room; if drying room is heated by stove, attends to fire; sometimes places alkali plates under a press before cleaning, although this is more often done by paster.

secondary battery maker, secondary cell maker, as for accumulator maker, storage battery former, see former, plate.

storage battery maker, see accumulator maker.

washer; receives plates from former g.v.; scrubs them with scrubbing brush and water to remove surplus acid; places them on a drying rack to dry.

303.—COIL WINDERS.

armature bander, armature bender; secures coils in position by bending with tape or string, and binds structure of finished armature with wire, or otherwise, to give mechanical strength; also secures band thus produced by soldering.

coil finisher; coil trimmer; cuts off lugs and ends of finished coils, by hand with snippers to give a neat finish.

coil former, coil maker, see winder, coil.

coil presser; presses into shape between two plates, coils for dynamos and motors, in a specially constructed press actuated by a hand or foot lever; coil regulator; shapes coils; examines parts and does any repairs (by re-winding of damaged parts or otherwise) that may be required.

coil trimmer, see coil finisher.

winder, armature; dynamo winder; places coils in symmetrical position on armature structure, and connects to commutator or slip rings by end rises soldered or bolted in position.

winder, armature disc; armature coil winder, see winder, coil.

winder, bobbin; spool winder; winds on bobbins of wood or other material, insulated wire in several layers as required for use in electrical apparatus; work done on lathe or spindle.

winder, coil; armature coil winder, armature disc winder, coil former, coil maker; sets bobbins of coil wire in grips of coil winding apparatus, hand or electrically driven; attaches end of wire to porcelain bobbin; starts motor; guides wire as it is wound on bobbin; solder and connects coils.

winder, dynamo, see winder, armature.

winder, field coil, as for winder, bobbin.

winder, field magnet, as for winder, bobbin.

winder, induction motor; an armature winder g.v. engaged in winding induction motors.

winder, magnet; wind coils of wire which are put round magnet cores used in magnetos and small electric mechanical apparatus, either by hand or by machinery; in latter case feeds automatic machine with wire, and controls machine by lever.

winder, magnet; magnet armature winder; winds wire by hand or machine on finished armature core; binds finished armature with tape; solders thickens connecting wires to end of windings, and varnishes armature.

winder, mesh; an armature coil winder g.v. who winds by hand type of armature known as mesh armature.

winder, rotor; an armature winder g.v. engaged in winding "rotors," i.e., revolving parts of alternating current machines.

winder, solenoid; a coil winder g.v. who winds coils of wire for use in solenoids.

winder, spool, see winder, bobbin.

winder, stator; an armature winder g.v. engaged in winding stators.

winder, transformer; a coil winder g.v. who winds wire coils on formers for fitting into transformers.

winder, tube; a coil winder *q.v.* engaged in winding wire round a tubular insulator.

winder, turbo-alternator; turbo winder; an armature winder *q.v.* engaged in winding stators and rotors of alternators.

304.—COIL INSULATORS.

coil insulator; coil taper, coil taperer; binds coils with tape; sometimes places bound coil in an oven or drying chamber or dries it by vacuum process (usually done by labourer); dips it in a tank containing insulating varnish. Impregnator (coils): dips coils in varnish or other like preparation, or paints them therewith.

insulator; general term for any weaker insulating coils by varnishing, wrapping with tape or impregnated paper, etc.

micra cutter; (i) cuts up small coil (not flaked) mica for commutator segments, etc., using a small belt-driven circular saw with very fine teeth; (ii) as for micranite cutter.

micra dabbler, see micranite builder.

micranite builder; also dabbler micra painter; covers an oil-lined sheet which is laid on a flat-topped table with a layer of adhesive varnish and a second layer of flaked mica, and so on until required thickness is attained.

micranite cutter; cuts up built-up sheets of "micranite" (an insulating material made of crushed mica and asbestos) in a power press or a fly press; work similar to that of mica cutter *q.v.*

micranite moulder; builds up flaked mica, together with adhesive shellac varnish, in a mould, and presses them together in a press, for use in making commutator ends, rings, etc.

micranite tube maker micranite tube worker; bends micranite into tubes; cuts and trims it, and cements it together to retain its formation.

micra painter, see micranite builder.

micra pressman; works a press which compresses sheet or other forms of mica built up by other workers.

micra worker; micranite worker;

general terms for any operative working in mica or micranite, including micranite builder, micranite moulder, micranite tube worker *q.v.*

taper, coil; coil taperer, see coil insulator.

tape winder (insulating tape); winds insulating tapes on lath into small coils.

varnisher, insulation varnisher; paints and varnishes electrical gear with insulating material, by hand with a brush.

305-8.7.—ELECTRICAL ENGINEERS, FITTERS AND ELECTRICIANS (NOT OTHERWISE DESCRIBED).

assistant electrician (theatres, music halls); assists electrician (theatres, music halls) *q.v.*

bell man (mines); an electrician who attends to repair and maintenance of electric bell lines, pushes and batteries in mines.

chief electrician (film producing); sets in position and maintains electric lamps used in cinema studios; manipulates switch-board during production, and is generally in charge of preparation of lighting effects in scenes.

controller fitter and repairer; an electrical fitter *q.v.* who fits up, and erects in position, controllers used in connection with electrical machinery, especially of electric cars in tramway or railway depot; also repairs controllers by adjusting, or renewing, working parts, using pulleys, screw-drivers, spanners, etc.

electrical engineer; (i) a trained and qualified technical man, either employed in design and construction of electrical plant and apparatus, or (in a supervisory capacity) in control and operation of electrical plant and apparatus in service; (ii) (francophone) superintends and controls electrical work in connection with tramway rolling stock, permanent way, cables and overhead trolley wires, and electric power supply machinery.

electrical fitter, electrical engineering fitter, electrical mechanic; an engineering fitter (210) *q.v.* engaged in making, adjusting, erecting, or repairing electrical appliances, apparatus, or machinery; more particularly heavy machinery, such as dynamos, alternators, switchboards, etc.

electrician (factory), a maintenance man, who keeps lighting and power circuits and plant in working order; attends immediately to any breakdown in electric lighting or power circuit, *e.g.*, repairs blown fuses, replaces worn brushes on motors.

electrician (Post Office); term not officially recognised in Post Office classification; a man so describing himself might be an electrical fitter *q.v.* a wireman (311) *q.v.*, a "skilled workman" (311) *q.v.*, etc.

electrician (rolling stock); installs wires, cables, generators, batteries, and other electrical fittings for lighting railway carriages; also fits telephones and electric bells in saloon carriages and compartments.

electrician (theatres, music halls, etc.); is responsible for care of electrical plant by which a theatre, music hall, etc., is lighted, including special lighting of stage; carries out wiring, repairs, etc.

electrician (tramways); examines electrical systems of tramways to detect faults, which he repairs; sometimes (but rarely) does armature winding and repair of controllers.

erector, erector-fitter, fitter-erector; (i) an electrical fitter *q.v.* sent out by a firm of electrical manufacturers to erect electrical plant of all descriptions on customer's premises; (ii) assembles switch boards, motors, dynamos, electric cranes, etc., in factory where made, for testing purposes.

fitter driver; carries out repairs, in addition to performing duties of engine driver (350) *q.v.*

fitter-erector, see erector.

gas and candle fittings adapter; aligns and adapts, with hobs, screwing in tools, and hand tools, gas and candle fittings to suit electric light.

wireless engineer; an electrical engineer *q.v.* skilled in installation, maintenance and repair of wireless apparatus; erects aerials; tests in installation for faults, and carries out any necessary adjustments and repairs; instructs wireless operators (754) *q.v.* in mechanical side of their work, *e.g.*, tuning in and operating instruments; (at aerodrome) installs wireless apparatus in flying machines and in wireless offices.

306.—INSPECTORS, VIEWERS AND TESTERS.

ager, flash ager; examines electric incandescent lamps, before and after cap is fitted on; inserts lamps in holders in a circular table (or conical table) or on terminals on outside of table and as table slowly revolves, observes lamps through a blue screen, meanwhile increasing and decreasing current through lamp; rejects lamps with imperfect filaments; puts sound lamps in tray to be taken away for next operation.

examiner; viewer; examines articles on completion of its process of manufacture, to ascertain if measurements are correct, using check rules, gauges,

etc., and to detect faulty materials or workmanship by minute visual examination; usually an electrical mechanic (306) *q.v.*, either set apart for this work or occasionally employed in it; often further distinguished according to class of article examined, *e.g.*, coil, magneto, motor examiner; see also other special classes of examiners defined below.

*examiner (Post Office Engineering Dept.); compares pieces with specification laid down by G.P.O., and approves or rejects delivery.

examiner, motor (elect. railways); a skilled electrical fitter or electrician who examines electrical equipment of electric train motor before or after journey to ensure that it is in running order; overhauls dust gear, control gear, fuses, etc., and oils, adjusts and renews parts where defects are not sufficiently serious to justify withdrawal of car from service to workshop for repair.

examiner, motor (francophone), see inspector, motor (francophone).

examiner, wire; wire overlooker; examines cables, wires, etc., during and after manufacture, to detect bad materials or workmanship, by simple scrutiny or by using a gauge, calipers, micrometer, etc.

*examining mechanic (Post Office Engineering Dept.); in testing department makes a visual examination of electrical apparatus received into test room; also carries out electric tests on articles with galvanometer, ohmmeter, ammeter, ohmmeter and other instruments.

fault finder (electrical cables); in test room makes various tests (for carrying capacity, insulation, resistance, etc.) on cable to ensure that it reaches standard specification, using galvanometer, etc.

inspector, electrical inspector; inspects, and reports upon, goods intended for use in electrical industry or products of that industry, either on completion or in course of manufacture, sometimes also tests such goods or products by use of galvanometer, voltmeter, etc.; inspects electrical installations of all kinds.

either at regular intervals or on special occasions, as required; often further distinguished according to class of goods inspected, *e.g.*, coil, installation, lamp, telegraph cable inspector; see also other special classes of inspectors defined below.

inspector, installation; see fitter, installation.

inspector, motor (tramways); motor examiner (francophone); patrols tramway service routes and carries out minor running repairs, when possible, to car trolley brads, controllers and bells, controls, motor brushes, etc., to enable car to return to depot; at depot, electricians (305) *q.v.* carries out more permanent repairs.

inspector of fuse boxes; makes periodical examinations of fuse boxes, either on consumers' premises or at distribution boxes.

inspector, test room; test room supervisor; in charge of test room and responsible for efficiency of tests; supervises work of testers *q.v.*; examines test sheets and other records received from testers; deals with correspondence of testing department; mica gauger; measures thickness of mica (or micranite) plate, using micrometer, vernier or plate gauge; usually spends part of time in cutting or making sheet micranite.

*test clerk (Post Office Engineering Dept.); receives report of existence of telephone line fault from testing office *q.v.*; tests line by voltmeter to locate fault inside or outside telephone exchange; submits report to engineer to arrange for necessary repairs; keeps record of all faults.

* Term officially obsolete. Used by the Post Office Engineering Department as a skilled workman (311).

tester; tests electrical machinery or apparatus, or articles used in or produced by electrical industry, either in ordinary working conditions or by applying certain recognized standard tests to detect faults, e.g., vibration tests, resistance tests, capacity tests, insulation tests, etc.; uses various instruments according to article and nature of test, e.g., verniers, plate groups, galvanometers, speed counters, resistance tests may be made either at works (before articles are delivered to customer), or on customers' premises, often further distinguished according to article tested, e.g., are lamp, coil, dynamo, rheostat, thermostat, telephone, wire tester, etc. also other special classes of testers defined below.

tester, chemical (cable manufacture); makes routine tests of materials used in manufacture of electrical cables, working under direction of chemist.

***tester, electrical apparatus (G.P.O.)**; an examiner (Post Office Engineering Department) *q.v.* who tests, by comparison with standards, or with fine measuring instruments, electrical apparatus used in telegraphy or telephony.

tester, insulation tester (electric cables and wires); tests insulation resistance of electric cables by applying a high electrical pressure or voltage; also measures insulation resistance, copper resistance, and capacity, using instruments of precision.

tester, insulation tester (electric plant and apparatus); tests insulation resistance by application of high electrical pressure or voltage and by precision measurements; also tests efficiency and performance of plant and apparatus.

tester, installation; installation inspector; inspects new work installed on customers' premises before connecting with main supply and tests it by connecting wires to instrument known as "megger," which causes a high voltage current (sufficient to blow up any faulty material or workmanship) to pass through wires.

tester, insulation; (i) see tester (electric cables and wires); (ii) see tester (electric plant and apparatus).

tester, meter; electric meter tester; connects electrical meters to test switchboards, either at works (before dispatch to consumer), or in testing room, to which meters are returned for periodical examination and test, or (very occasionally) on consumers' premises; observes dials and indicators and adjusts meters according to test results, using pliers, screwdrivers, files and occasionally lathes.

tester, motor (trunways); tests efficiency of motors for trunways, either new or under repair, with help of other instruments; applies insulation test by passing heavy charge of electricity through motor with a megger.

tester, submarine cable, as for tester (electric cables and wires).

tester, submarine cable, as for tester (electric cables and wires).

***testing officer (telegraphs and telephones)**; makes tests along a faulty telegraph or telephone line to locate fault, using various instruments; when fault is located, gives instructions for repairs or removal of line.

viewer, test room.

wire overhauler, test examiner, wire.

309-INSTRUMENT MAKERS AND ASSEMBLERS.

accessories assembler, accessories mounter; makes up or assembles from parts (which are supplied already stamped, turned, pressed, etc.) such articles as wall plugs, switches, lamp-holders, ceiling roses, etc., using screwdriver, files, pliers, etc.

ammeter assembler, as for instrument maker.

are lamp maker, are lamp fitter; assembles by hand, repetition parts are lamps, using pliers, files, screwdrivers, etc.; fits, adjusts, and regulates are lamps to insure correct working; repairs, when necessary, clockwork or internal mechanism of lamps.

assembler, putter-together; general name for operative who assembles, or fits together, parts (previously made by other workers) of any electrical appliance, fitting, or piece of apparatus; often further designated according to article assembled, e.g., accessories assembler, brush assembler, rheostat assembler.

bell indicator maker, see electric indicator maker.

bell maker, see electric bell maker.

bell push maker; an accessories assembler *q.v.* engaged in making bell pushes, if a leading hand, also superintends girls engaged in assembling these parts into complete articles.

brush assembler; puts together body springs, and brushes, with bolts and screws.

calibrator, instrument calibrator; instrument adjuster; tests, and adjusts to standard, electrical measuring or indicating instruments before delivery to customer, or when they have been returned for repair, using voltmeter, ammeter, potentiometer, megger or other testing instruments; sometimes also connects to switchboard and passes electrical current through instrument to be calibrated; *cf.* tester (308).

clock assembler (meters); puts together clock mechanism forming part of electric meters.

clock band, clock man, clock maker (electric meters); clockmaker (323) *q.v.* who specializes in attending to clockwork mechanism of electrical meters; replaces worn or defective parts with new parts, using hand tools, turn and re-bushes parts of mechanism, if necessary, on a lathe; cleans mechanism with petrol, etc., and overhauls it generally.

condenser builder; condenser hand; builds up condenser with mica, insulating paper, tinfoil, asbestos, or glass, usually by arranging strips of two of these substances (e.g., tinned and mica) in alternate layers until desired capacity is attained; fits brass connecting terminals; encloses whole in a container.

condenser builder, variable; assembles plates, received already prepared, on spindle to form a variable condenser, using small bolts and pliers, screwdriver and other hand tools.

condenser band, see condenser builder.

electric bell maker; bell maker; assembles repetition parts of electric bells into complete units; adjusts them to fit and to ring properly; repairs electric bells by renewing worn or damaged parts, etc.

electric fan maker; fan fitter; assembles blades, frames and other component parts, received ready pressed or cast; builds them up into complete electric fans and adjusts them to run correctly using pliers, screwdriver and other hand tools.

electric ignition maker, see magneto maker.

electric indicator maker; bell indicator maker; assembles parts of electric bell indicators into complete units; adjusts them, and fits them in cases.

electric bell; (i) fits up apparatus and wires for electric signals or indicators in internal work, and does simple electric bell repairs; (ii) fits wires, pushes, switches, bells, and batteries; cleans batteries and repairs wires and bells when necessary.

fitter, fan, see electric fan maker.

fitter, galvanic apparatus, as for instrument maker.

***fitter, instrument**; (i) see instrument maker; (ii) (G.P.O.) fits telephone instruments and small switchboards on subscribers' premises.

fitter, rheostat; rheostat builder; makes parts for rheostat starting switches used in connection with electrical machinery; assembles resistances, usually made by other workers (though in small works, may wind own coils); sets up rheostats complete and adjusts for proper working.

fitter, switchgear; an electrical fitter (300) *q.v.* who assembles made up parts by hand, using screwdriver, spanner, pliers, etc. to form switches, circuit breakers, and instruments for control of electrical plant.

***fitter, telegraph instrument**; (i) (G.P.O.) see telegraph instrument assembler; (ii) in some factories, does more highly skilled work of making fine adjustments.

galvanic apparatus maker, as for instrument maker.

galvanometer assembler; potentiometer maker; fits and screws together component parts of galvanometers.

galvanometer maker, as for instrument maker.

instrument adjuster, see calibrator.

instrument assembler, as for assembler.

instrument maker, electrical instrument maker; instrument fitter, assembles components, usually made by other workers, into complete electrical instruments; but sometimes makes, assembles and fits instrument cases himself; after also repairs worn or defective instruments, by renewing parts and by re-adjusting.

instrument maker (Post Office Engineering Dept.); builds up or repairs telegraph or telephone instruments or apparatus.

instrument repairer; an instrument maker *q.v.* wholly or mainly engaged in repairs.

magneto assembler, as for assembler.

magneto components maker, magneto parts maker; files, shapes, or turns on lathe, gear wheels, handles, insulators, contact bushes, and other parts of magnetos.

magneto condenser maker, as for condenser builder.

magneto maker; electric ignition maker, motor ignition maker; assembles parts of magnetos, treadle coils, commutators, switches, plugs, etc., received ready machined, into complete articles, using screwdriver, pliers and other hand tools.

magneto repairer; strips magnetos; examines them to detect faults in winding or in internal mechanism; repairs worn or defective parts; re-assembles parts into complete units.

meter assembler, meter band, electric meter assembler; general terms for any operative engaged in assembling, fitting, making, calibrating, repairing, or otherwise working upon, electric meters.

meter maker, meter fitter, electric meter maker, electric meter fitter; as instrument maker *q.v.* who assembles, calibrates and fits together component parts of electric meters, using screwdrivers, files, pliers, spanners, soldering bits and varnish brushes; repairs faulty meters by replacing worn or defective parts.

meter repairer; electric meter repairer; a meter maker *q.v.* wholly or mainly engaged in repairs.

microphone maker; assembles parts already machined, to form complete microphones, using pliers, screwdriver and other hand tools; makes final adjustments to articles when completed.

motor ignition maker, see magneto maker.

motor starter maker, motor starter fitter; makes parts for motor starters, fits and assembles them.

* Terms officially obsolete. Classified by the Post Office Engineering Department as a skilled workman (311).

wireman, electrical wireman, *see* electrician.

wireman, indoor; an electrician *q.v.* usually engaged in indoor work *e.g.* wiring interiors of houses, as distinguished from outdoor wireman or lineman.

*wireman, telegraph or telephone; a member of a gang engaged in erecting or repair of overhead telegraph or telephone wires and wiring work, and in splicing, regulating, binding, and terminating of these wires.

*wireman (telephone exchanges); stripes, forms, and loose end cables, and connect these to taps on apparatus racks and switchboards.

wireman, telephone switchboard; does routine erecting and wiring up of telephone switchboards.

*wireman, wire (electrical lamps); welder; (i) joins and welds short ends of connecting wire to filament before mounting in bulb; (ii) joins together wires making up leading-in wire of lamp.

wire repeller, *see* for linemen.

wire worker (electric cables), *see* cable joiner.

018—OTHER SKILLED WORKERS.

armature assembler, armature builder; assembles wound coils, commutator bars, cores, etc., on central shaft of armature by hand; tests them up, and some of the ends of coils to commutator bars, using hand tools only, *e.g.* pliers, screwdriver, spanner, soldering bit, with nails, bolts, screws, etc.

armourer, armouring machine worker (cables), cable armourer; wire armouring machine worker; one of a gang of men working under supervision of cable machine driver *q.v.* on a machine which puts a protective covering of iron or steel wire together with tape or jute, round insulated cables; loads spools of wire or sheins of steel tapes on to machine by means of a hand lift; loads spools of tape or jute on to machine by hand; fixes cable on to receiving drum with strands of wire; coats cable, which it passes through machine in contact with tar or bitumen (for weatherproofing purposes), with a mixture of chalk and water, by hand with a brush, to prevent cable sticking; guides armoured cable on to drum by hand; joins up any wires broken in process of armouring with a blow lamp.

battery maker, electric; *see* primary battery maker; *cf.* accumulator maker (303).

bench hand; general term for any person (*e.g.*, assembler, fitter) who works at bench, making, or helping to make, parts of electrical apparatus.

bulb worker (lamps); (i) *see* waler; (ii) *see* piecer.

thourner-in (lamps), *see* waler.

cable core maker; (i) attends machine which makes up cores for a three-core or for a multiple cable; (ii) operates machine by hand with sheins of paper tape, raw cotton, hemp, or other material, and with stranded copper wire from a drum; fixes copper wire on to receiving drum by hand, and stops or starts machine by means of lever; repairs broken paper, etc., by joining ends together with paste or by tying; (iii) moves usually in a strander (319) *q.v.* who makes cores for cables by twisting wires together in a stranding machine.

cable machine driver, cable machine minder; a leading hand in charge of a team of from two to four workers, employed on certain machines used in cable making, *e.g.*, armouring, lead sheathing machines; responsible for proper working of machine and sees that it is fed with wire, insulating

or sheathing material workers working under him; starts wire stops machine by means of hand lever; may carry out minor repairs to machine.

cable sheather, *see* lead coverer.

cap fixer, capder (electric lamp); collarer, stuffer; inserts leading-in wires of lamps through holes in cap; fills cap by hand with shellac or plaster of Paris; fits cap on bulb; puts bulb and cap on rack and allows plaster to harden naturally or places them in drying chamber, or sometimes (always with shellac filling) heats with a gas flame or electric heat; with a gentle cut of leading-in wires flush with top of cap by hand with knife; sometimes also solders top of each wire, using solder, flux and bit.

*cap solderer (electric lamps); cuts off leading-in wires flush with top of lamp by hand, with a knife, and a spot of solder on top of each wire, using solder, flux and bit.

cell maker (primary or undefined), *see* primary battery maker.

circuit breaker maker, circuit breaker fitter; (i) assembles connection parts to form complete circuit breaker, using pliers, screwdrivers, spanner and other hand tools; (ii) makes brass and copper fittings for circuit breakers, by hand, using hack saw, file, chisels, etc.; (iii) fits coils, carbons, blades, etc., and finally adjusts complete article.

classifier (lamps); fabulator; classifies finished lamps according to their (a) efficiency and (b) consumption of current, and assigns them to their proper grades; is often a photometer hand *q.v.*

oscillator, *see* cap fixer.

commutator builder, commutator fitter, commutator hand, commutator maker; builds up copper bars and mica slips on armature shaft of dynamo or motor, then trues on both so as to give perfect surface for bearing of brushes.

commutator part maker; files, mills, or otherwise shapes, copper commutator bars, or cuts mica to required size and thickness, ready to be fitted together by commutator builder *q.v.*

contact maker; (i) moves and attends automatic stamping machine which cuts and shapes copper contact pieces for use as components in controllers, switches, etc.; feeds machine with copper sheet by hand; (ii) lets often cuts and shapes copper contact pieces by hand, using saw, file, emery wheel, or other abrasive.

controller fitter; assembles and fits together small component parts of controllers (multiple switches, used for admitting current to electric motors or cutting it off therefrom) or repairs such controllers.

controller man (electric car); cleans and oils controllers of electric cars in tramway or electric railway depot; inspects and reports defects.

controller restorer (electric car); repairs controllers in an electrical tramway or electric railway repair shop, by replacing worn or damaged parts with new parts.

core assembler, core builder; builds together incisions of soft iron and castings, which are fed wound by hand with wire to make cores for use in electrical machinery, *e.g.*, dynamos, motors, transformers.

diameter fuse cutter; makes fuses in which wire is surrounded by asbestos, oil, or other damping (non-conducting) agents.

electric sign fixer; fixes electric advertising signs and connects them to cables in position.

electric sign maker; builds up component parts of wood, glass, brass, sheet steel, etc., to form electric advertising signs.

exhauster (electric lamps); spanner; places lamps, to bottom of each of which has been fused a glass tube (sealing off tube), in gas-heated furnaces; connects tubes by means of

rubber or of thick glass tubes to an automatic vacuum pump; closes furnace door; removes lamps when they have been exhausted and sealed (exhausting and sealing being automatic) and places in trays.

filament former, filament shaper; controls, by means of a lever, machine which forms filament (filament passing into it automatically from filament drawing machine, operated by filament maker *q.v.*), and cuts it to size with automatic guillotine as it leaves machine.

filament winder; (i) (carbon filaments) puts carbon mixed with paste in bowl of automatic machine; moves lever to start and stop machine, which draws this mixture into a filament, which then passes automatically to filament former *q.v.*; (ii) (tungsten filaments) feeds machine with tungsten wire from a spool, sets machine in motion, causing wire to pass through a gas-heated furnace where it is heated by small burners to extreme fineness and drawn through a diamond die; if filament breaks, usually winds filament on to reel and spins by hand; (iii) (tungsten filaments) general term to cover all workers on tungsten filament machines, including filament former, filament moulder, filament winder.

filament moulder; (i) fits formed filament on its supports in a lamp bulb by hand, using fine tweezers and electric welding machine; (ii) attends machine which moulds filament on lamp stand automatically; feeds machine by hand with stem and tungsten and operates machine by means of levers; removes moulded stand by hand and rack.

filament solderer, *see* waler.

filament winder; starts and stops by means of levers, machine which winds cable filament on a spool; feeds machine with filament.

flash light bulb maker; flows lamp seals; feeds automatic machine with small pieces of glass and cement; moves levers, setting in motion machine which mounts, exhausts, seals and delivers bulb completed.

gauge (lamps); weighs a measured length of filament to be used in making electric lamps on a delicate balance and so calculates gauge from mathematical tables.

generator maker; makes small electric generators by hand, i.e., builds armatures from stamped parts, and sometimes also winds coils though this is more usually done by coil winder (303) *q.v.*

glow lamp maker; *see* flash light bulb maker.

grid maker; supporter, support maker, wire fastener, wire former, wire worker; makes, from wire, a grid-like formation for fitting into electric light bulbs as supports for filaments or grids or wire in thermionic valves. Impregnating pump driver (cables); places cables, which are fitted on drums, in impregnating tanks or ovens, with help of hand lifts, hoists, etc.; secures door of tank or oven; keeps up supply of oil to tank or oven by means of levers controlling pump, watching gauges showing supply and amount of oil.

lamp fitter; an electrical fitter or electrician (303) *q.v.* who installs lamp holders, using hammer, chisel, screwdriver, pliers, and other hand tools.

lead coverer, lead sheather (cables); cable sheather; a cable machine driver who is in charge of a gang of two or more men on a machine which covers cable with lead by means of dies and a plunger; starts and stops machine by means of levers; supervises feeding of machine with cable from drum and with molten lead, which runs into a machine through a trough from a furnace close at hand, and winding of covered cable on receiving drum.

motor assembler; an electrical fitter (303) *q.v.* whose special component

* Terms officially obsolete. Chained by the Post Office Engineering Department as a "skilled workman." O.E.L.

parts by hand to form complete motor, using spanner, pliers, screwdriver and other hand tools.

motor fitter; an electrical fitter (306) g.v. engaged in making, adjusting, erecting, or repairing electrical motors.

paste mixer; (i) weighs out (dev) on a scale and mixes (generally wet) in a mortar, by hand, lead compounds used by painters (302) g.v. in pasting accumulator plates; (ii) weighs out ingredients of paste and shovels them into a mixing machine, which he operates with levers.

photometer hand, photometer operator; measures, with photometer, candle power of electric lamps.

plumber; bulb worker (lamp); setter-up, stemmer, tubulator; places electric lamp bulbs and small glass stems in an automatic stemming machine, in which gas jets play on bulbs and stems, and stems are fused on to bottom of bulbs, to facilitate process of exhausting bulbs; starts and stops machine by means of levers; removes stemmed bulbs from machine to tray.

pillar fitter; assembles and erects in position in street a complete pillar, which is fitted with switchgear and fuses, in connection with electric trolley and lighting services and fire alarm systems.

*pole fitter; fits cross-arms and insulators in position on poles for telegraphs or telephones or for power transmission, by hand, using brace and bit, spanners, bolts, nuts, screw-driver, saw, etc.

primary battery maker, primary cell maker; cell maker, electric battery maker; puts together component parts of electric primary cells and, when necessary, groups them to form a battery.

pumper (electric lamp); see exhauster, pump man (railways); keeps electrical drainage pumps on permanent way of railway in good running order, i.e., repairs glands with asbestos, tightens bearings and makes any general adjustments with spanner, screw-driver, etc.; cleans with engine waste and fills oil cups.

repairer (lamps); (i) renovates old lamp bulbs by opening them by means of blow pipe and gas flame which melts glass near cap; removes filament, exhausts air, and seals them up again; (ii) repairs any portion of a lamp during process of manufacture, e.g., if wire supports are not properly fixed in position owing to defect in machine, melts stem with gas jet, and places wire in position in soft glass of stem with tweezers.

rotor maker; makes "rotors," i.e., revolving parts of alternating current electric generating machines; work similar to that of armature assembler g.v.

sample maker (cables); cuts cables into convenient short lengths for use as samples, with and without wire saw; polishes them at ends with file and emery cloth, to show perfect section; then "whips" ends by binding with twine or wire and lacquers entire sample by hand with brush; sometimes mounts samples in paper weights, etc., by hand.

teaser, solder-in (lamps); bulb worker, burner-in, filament solderer; moves levers to start and stop sealing machine; feeds machine with bulbs and with studs on which filament has been mounted; watches machine to ensure that it properly seals stud in bulb and seals it on to bulb by action of gas flames; removes bulbs from machine to tray when studs have been fused in.

teaser-off; places lamp bulbs in which filaments have been fused (see teaser) and a sealing stud (stud already fixed to bottom of lamp) in machine, where a vacuum is created in lamps by a system of pumps; moves

levers causing lamps to revolve slowly inside machine, while gas flames fuse sealing-off tube; as each sealed lamp comes round, lifts it off machine with a pair of tweezers, and places it on a tray.

tessler-on (lamps); seals glass tube on to exhaust stem of bulb by means of blow flame; term and method now obsolete.

tester-up; (i) (lamps), see pincer; (ii) sets up and adjusts automatic or semi-automatic machines used in electrical works, using gauges and micrometer; usually a skilled turner (200) or (234) g.v.; more rarely an electrical fitter (308) g.v. test maker; (i) builds up, by hand, using screw-driver, pliers, drills, soldering bit and other hand tools, shunts or strip metal pieces between terminals for use with ammeters, etc.; (ii) winds small coils of high resistance wire by means of small automatic machine to make shunt for use in resistances.

tapsuper (lamps); stamps on lamp bulb, after completion, trade mark of maker, candle power, and voltage, using stamp or stencil and a pad dipped in acid.

stator maker, as for armature assembler. *see pincer.*

stud fixer, as cap fixer, supporter, support maker, see grid maker.

surface contact equipment repairer; third rail repairer; renews, replaces, and repairs wires, springs, contact fingers, etc. on surface-contact electric railway or tramway system.

switchboard fitter, switchboard maker, switchboard assembler, switchboard constructor, switchboard erector, switchboard hand, switchboard mounter (electric power); marks out for drilling, erects framing (usually of iron or steel), and attaches slate or marble slab thereto; connects switches, fuses, circuit breakers, and instruments in front, and other connections at back; often done by electrical fitter (306) g.v. switch fitter, switchgear fitter, switch hand; assembles component parts to make complete switch, using screwdriver, pliers, hammer and other hand tools.

tubulator (lamps), see classifier, third rail repairer, see surface contact equipment repairer.

transformer assembler, transformer builder, transformer fitter, transformer hand, transformer maker, transformer mounter; fits coils over core in a transformer and secures them in position with clamps and iron angle plates; places in position laminations of iron, castings, and insulation, and builds them up to form complete transformers, using pliers, screwdriver, spanner, etc.; puts in terminal gears and makes necessary connections; sometimes also fits coils into iron tank used as receptacle for oil, as transformer commonly runs in oil.

trimmer, lamp trimmer (electric arc lamps); cleans arc lamps and replaces burnt-out carbons.

tubulator, see pincer.

twine (lamps); wire joiner; welds two wires together in a gas flame or by process known as spot welding or by welding; leads wires in fingers and manipulates with tweezers.

wire armouring machine worker, see armourer (cables).

wire tester, wire former, see grid maker.

wire fitter, see welder (lamps); cf. wire joiner (311).

wire worker (lamps), see grid maker.

SIX-OTHER WORKERS.

accumulator sawyer, see plate sawyer.

*battery man, battery attendant; employed, usually as power station,

also in G.P.O., to examine condition of electrolyte and plates in cells of an electric battery; keeps cells topped up with electrolyte, removes short circuits caused by positive and negative plates touching, by inserting new separators; cuts out and replaces faulty plates; takes readings of voltages, current, and specific gravity, by means of voltmeter, ammeter and hydrometer; "boosts up" low cells, i.e., gives an extra charge of current to under-charged cells to bring them up to normal; maintains secondary batteries generally.

bitumen insulator; one of a gang of two or three men employed under a cable machine driver (318) g.v. on a machine which coats cable with vulcanised bitumen; feeds machine, by hand, with cable, already sheathed with tape, cotton or other material, from a drum; puts small pieces of rolled bitumen, by hand, in a worm-fitted feeder, which passes bitumen into a small steam-heated chamber, through which cable passes and in which rolled bitumen is forced round cable as it passes through a die; fits end of cable on a receiving drum as it emerges through water trough where bitumen is cooled and hardened.

bitumen layer (cables), see taper (cables).

bitumen roller; feeds vulcanised bitumen compound, for insulation of cables, between a pair of heavy rollers; starts and stops machine by means of levers.

braider, winding machine tender (cables); as for cable machinist.

cable hand, cable man; (i) (in electric supply undertaking), see joiner's mate; (ii) (on cable ship) secures cable hand; handles cables on cable ship engaged in laying or repairing submarine cables, and assists in general upkeep of ship; *obsolescent term.*

cable hand, gutta percha, as for cable hand.

cable joiner's mate, see joiner's mate.

cable machinist, cable former, cable laminator, cable sheather, cable whippers; moves levers to start and stop automatic machine which is fed with wire from a drum and with tape, cotton, hemp, rubber and/or other insulating material, usually from spools; replaces empty spools with full ones as required; guides wire and insulating material into machine at commencement of operation, watches correct working; regulates speed of machine by means of levers; repairs broken material when necessary.

cable tank's assistant; cable tank attendant, tank man; one of a gang of men employed in tank rooms; hares end of cable with a knife, lifts cable on drum into water tank with a hand lift; connects ends of cable which are close of the water with wire to switchboard switches on current to test cable for insulation and pressure; removes drum holding cable by hand lift after test.

cleanser (cables), see end finisher, cleaner (lamps); (i) see washer; (ii) cleanses finished lamps, by hand, with cloth and pumice powder before name is etched on.

coiler (cables), see measurer.

compounder, compound maker, compound mixer; maker, toner, mixer, testing man, dunkman; (i) loads boiler, which is built over a gas, coal or oil furnace, with bitumen, gutta percha and other ingredients, by hand, to make insulating material for electric cables; operates, by means of lever, machine and sprayer, attends to supply of fuel to furnace, and opens ball-cock which allows molten compound to discharge into tank; (ii) (in small works) mixes compound, by hand, over fire, stirring it with a rod as it boils.

* Term officially obsolete. Classified by the Post Office Engineering Department as a "skilled workman." (311).

* Term officially obsolete. Classified by the Post Office Engineering Department as a "skilled workman." (311).

copperer, carbon brush copperer; removes carbon brushes (used in electric motors and dynamos) from mould after they have been cast; places them in grill-shaped frame, and inserts in a pocking vat containing a copper solution; removes when process complete.

cord binder, telephone; telephone cord finisher; binds, whips, and finishes into convenient lengths, using small spindle lathe, cords which conduct telephone receivers to instruments.

cord boy; assists cord examiner or cord repairer (311) g.p.

cord finisher, telephone; see cord binder, telephone.

cord worker, telephone; moves levers to start and stop machine which forms telephone cords and laps them with cotton; feeds machine with spools of cotton and with wire from a drum; guides cotton and wire through machine at start; regulates speed of machine; repairs broken cotton when necessary by tying ends together.

cotton covering machine tender; see corrector, cotton.

cotton lapper; operates, by means of levers, machine which covers bell wire or other wire with cotton; replaces empty cotton spools with full ones; guides cotton from spool and wire from drum through machine at start; repairs broken cotton, when necessary, by tying ends together.

coverer (cables, electric wires); see coverer, cotton; coverer, silk; coverer, wire.

coverer, cotton; cotton covering machine tender, *coverer (cables, electric wires);* as for cable machinist.

coverer, silk; *coverer (cables, electric wires);* silk machinist; as for cable machinist.

coverer, wire; *coverer (cables, electric wires);* (1) operates machine which binds or laps cotton, with or without rubber strip, as an insulating cover for electric wire, e.g., bell wire, light flex; feeds machine with coils of wire and spools of cotton, rubber, tape, etc.; repairs broken cotton, and joins ends of cotton or rubber tape on two spools; (2) operates, by means of levers, machine which covers fine wire with an endless rubber tube; replaces empty spool of rubber band with full spool; watches correct working of machine.

coverer, wire (gutta percha); gutta percha wire coverer; a wire coverer g.p. operating a machine which covers wire with gutta percha; feeds machine with hot gutta percha and wire; regulates pressure of gutta percha to die through which wire passes; attends water trough in which covered wire is cooled (and gutta percha hardened) and drains on which it is wound.

coverer, wire (india rubber); india rubber wire coverer; a wire coverer g.p. who operates a machine which covers wire with india rubber.

cover-up (cables); see measurer.

depositor; makes platinum joint in carbon filament lamp, by heating it electrically under oil.

***desiccator hand;** attends to running and cleaning of desiccator, used for drying-out lead-covered cables.

dryer-out (lamps); sorts washed bulbs (see washer, bulb) on spindles through which hot dry air is blown, so that interior of bulb is thoroughly dried; removes dry bulbs to tray.

drying cupboard attendant (cables); see oven man.

drying oven attendant (accumulators); places plates of electrical accumulators in drying oven, and removes them when dry.

electrician's assistant, electrician's labourer, electrician's mate; wireman's assistant, wireman's labourer,

wireman's mate; assists electrician (307 or 311) g.p. or electrical wireman (317) g.p. by holding material, passing tools, and doing other unskilled auxiliary work; sometimes screws takes, drills walls, fits wooden plugs for securing tubes, wires, etc., and does other similar work with tools, under supervision of skilled man.

electrician's assistant (film processing); removes electric lamps, re-changes them with carbons, and keeps them trimmed; is usually in charge of "spot" lights when film is being taken.

enameller (cables); forquerer; operates, by means of levers, machine which enameles wires, by running them through a tank of quick-drying enamel and then on to receiving drum; guides wire from drum through machine to receiving drum at start; watches machine for correct working; refills enamel tank when necessary.

end finisher, and copper, end sealer (cables); cuts ends of cable after final tests to keep out moisture, either by dipping ends in a tank of cement or bitumen compound, or by pouring cement or compound on ends with a tello, or by fastening lead or rubber caps, fitted with compound, by hand, on cable ends; lead caps are soldered on lead-covered cables and rubber caps are fitted on rubber insulated cables and securely fastened with wire by hand.

erasp hot boy; attends to portable fan used by linemen (311) g.p. for heating soldering irons, carries fire-pot about, and waits upon linemen generally.

fitter's mate; carries tools and materials for fitter; cleans surfaces of work, and does work involving use of spanners, lifting tackle, and other simple tools and apparatus, under direction of fitter; assists fitter generally.

floor man (cables); labourer (cables); sweepers floor; "lags" (drains) carries raw material and finished or semi-manufactured products; does other unskilled jobs in electrical cable works.

gang hand, gang man (telegraphs and telephones); a member of a gang of men engaged in fitting wires or poles, digging trenches, laying pipes and conduits; (in Post Office service) may be either a "skilled workman" (311) or a labourer.

guillotine hand; cuts up this metal plates or mica sheets, to dimensions required, by guillotine (hand, treadle or power).

insulation hand; general term applicable to any worker engaged in insulating electric wires, coils, cables, etc.

joiner's mate, joiner's assistant, joiner's learner; cable hand, cable joiner's mate, cable span, plumber, and joiner's mate; holds work and tools for cable joiner (311) g.p.; lights fire, heats metal and box compounds, helps in excavating (if necessary), and assists cable joiner generally.

labourer (cables); see floor man, labourer (G.P.O.); (1) cleans and prepares cables, dips trolleys, assists in drawing cable into conduit, lays trolleys, and does other heavy work in connection with laying of telegraph or telephone cables; (2) overhead wires and cables, fixes poles, and assists skilled workmen in erection of overhead wires and cables generally.

labourer, telegraph; a labourer (G.P.O.) g.p. employed in telegraph work.

labourer, telephone; a labourer (G.P.O.) g.p. employed in telephone services.

laquerer (cables); see enameller.

lineman's mate; assists linemen (311) g.p. work similar to that of electrician's assistant g.p.

log brusher, log trimmer (accumulators); cleans logs of accumulator plates with a rotary brush, or by hand.

measurer (cables), cable measurer; coiler, cutter; a machine attendant (or one of a pair of machine attendants, working together) who pass thin cable, or wire, from one drum, through an automatic measuring instrument, on to another drum set in motion by machinery; watches indicator, and, when enough cable or wire has been wound, cuts wire or cable; takes coil so wound off drum, and binds it round with tape, string, or wire; re-connects drum, replaces it on frame, and repeats process; keeps record of number of coils wound.

meter room assistant; assists meter tester (305) g.p. in meters repairs and testing, and works under his supervision.

obscurer; (1) covers electric lamps with a coating of paint or varnish, (2) dips them in acid to produce an obscuring effect thereon.

oven man (cables); drying cupboard attendant; one of a gang of men who place cables, previously wound on a drum, in a steam-heated drying oven, using hand lifts; replaces discs of oven by means of hand lifts and clamps it in place; watches instruments which indicate steam pressure in oven jacket or pipes; winds cables from oven when dry.

pointer (lamps); see painter.

paper lapper, as for cable machinist.

painter (lamps); pointer; paints binding material over joint between filament and leading wire of carbon filament lamps.

planner (lamps); starts and stops, by means of levers, machine in which studs are heated by gas jets as they revolve in machine, and in which pins forming filament support are automatically inserted; feeds machine with glow studs and with wire; removes studs, with pins inserted, and puts them in a tray.

plate dryer (accumulators); attends to work of drying accumulator plates after they have been passed.

plate guillotine (accumulators), plate trimmer; trims accumulator plates in a guillotine.

plate sawyer (accumulators); accumulator sawyer; operates circular saw, which cuts lead castings or other material, as required, in making parts of accumulators.

plumber-and-joiner's mate, see joiner's mate.

preparer (electrical apparatus); takes various component parts from store to assembler's or mounter's bench for assembling; may also prepare small parts or components by filing, varnishing, or otherwise, in readiness for assembly; sometimes specifically designated, e.g., accessories preparer, telegraph instrument preparer.

sample maker's assistant (cables); assists sample maker (318) g.p. in simple operations.

seaman cable hand, see cable hand (on cable ships).

silk machinist (cables, etc.), see coverer, silk.

sorter (lamps); sorts lamps according to their rated consumption and pressure.

stranding machine driver; operates, by means of levers, machine, fitted with several pairs of rollers and a spreader, which coats paper or fabric (to be used for protecting cables) with waterproof material; feeds machine with paper or fabric from a reel and regulates supply of waterproof material from a feeder; removes roll of paper or fabric when waterproofed.

strander, wire strander; wire runner; (1) feeds an automatic stranding machine with spools of copper wire, either by hand or with hand lift, passes wires through a die in machine

* Term officially obsolete. Chased by the Post Office Engineering Department as a "skilled workman." (313)

and makes fast to receiving drum; operates machine, by means of levers, which automatically twists several wires together; if wire breaks, stops machine and joins broken ends with blow flame; (ii) one of a gang of three or four men attending a stranding machine (as described above) where thirty or more wires are being stranded.

tank attendant, cable, see cable tester's assistant.

tanker, tankerman, man, tanking man, tankman (cables): (i) see cable tester's assistant; (ii) see compounder.

taper, outer taper (cables): bitumen lapper; starts and stops, by means of levers, machine which is fed with impregnated bituminous tape from spools and with cable from a drum and which automatically covers cable with tape; replaces empty by full spools of tape; fits end of tape-covered cable on to receiving drum, by hand; if tape breaks, joins ends together.

tar boiling man; boils tar in a tank over a fire for coating armoured cables.

telephone track boy, as for freight boy.

test room assistant, test room boy: in training to become a tester (306) g.e., and engaged in simple tests, e.g., tests rubber, composition, metals or other materials by chemical tests or by applying heat or by passing current through material to test resistance.

washer, bulb washer (lamps): cleanser (dumps); places bulbs on trays in tanks of hot water before they are made up into lamps; removes trays and allows bulbs to dry naturally or passes to dryer-out.

winder (cables): supervises winding of cable round a mechanically-driven wooden drum or, if cable is light, sometimes revolves drum by hand; watches to see that cable is winding evenly; signals to driver of engine supplying power for winding process to stop when enough cable has been wound; helps in removal of drum from frame when filled and in inserting empty drum by hand lifts.

winder, copper; wire hauler; places a coil of copper wire on a loose cone or capstan and allows wire to pass through his hand to metal bobbin or small drum, which is made to revolve mechanically; regulates position of wire passing through his hand so that bobbin is evenly wound; stops machine when required, by means of foot lever; replaces full by empty drum or bobbin, sometimes also feeds and operates a copper stranding machine.

winder, cotton; winds cotton on to machine spools for use in cable covering.

winder, jute; a machine winder g.e. who winds jute on to machine spools for use in cable covering.

winder, machine; winds wires, cottons, silks, etc., from a drum on to spools of an automatic machine, for use in manufacture of cables, electric wires, etc.; stops and starts machine by means of levers; replaces full spools by empty ones.

winder, silk (electric cables); winds a machine which winds silk on to spools, for use in covering electric wires.

winder, wire; a machine winder g.e. who winds wire on to bobbins or spools, to facilitate banding in further processes; joins lengths of wire together by means of electric welding tool.

winder, yarn (cables); a machine winder g.e., who winds cotton, jute, silk, or other yarns on to spools, for use in cable covering.

wire band (cables), see winder, copper.

wireman's assistant, wireman's labourer, wireman's mate, see electrician's assistant.

wire runner, see strander.

ORDER X - MAKERS OF WATCHES, CLOCKS AND SCIENTIFIC INSTRUMENTS.

321—FOREMEN AND OVER-LOOKERS.

charge hand; adjusts, starts, stops and keeps in running repair automatic machines which make parts for watches and clocks, e.g., screws, supervises machine attendants, e.g., screw maker (309) (q.v.); usually a machine tool setter (311) (q.v.).

322—SCIENTIFIC INSTRUMENT MAKERS AND REPAIRERS.

air speed indicator maker; fits and assembles, by filing, screwing, etc., with hand tools, component parts of air speed indicators; usually done by revolution indicator maker.

barometer assembler, aneroid; aneroid barometer mounter; barometer mounter; mounts on wooden or other frame, movements and dial of aneroid barometer, and fits-on bevel and glass covering of dial by hand, using small hand tools. May also clamp to frame a small thermometer, when such is required to be fitted; cf. movement maker, aneroid barometer.

barometer assembler, mercurial; mercurial barometer mounter; mercurial barometer; (i) fits stock barometer tubes three or four feet full with mercury, places tubes on sloping iron racks over a charcoal fire to drive moisture from mercury; screws "cistern," mercury receptacle, to bottom of barometer frame, with screwdriver; fits a tube of mercury into cistern and mounts tube, with clamps, on wooden or metal frame; screws into position barometer scales, etc.; tests barometer with standard mercurial barometer, and, if incorrect, corrects by adding or withdrawing mercury to or from cistern; (ii) draws from stock metal or wooden barometer parts, including glass tubes, already filled with mercury and fused at ends by a glass blower (124) (q.v.), and mounts tube, to wooden or iron frame, with screwdriver and clamps; screws into position, scales, etc.; tests assembled barometer, and, if incorrect, bores hole through glass tube, adds or withdraws mercury as necessary and seals tube; cf. barometer maker, mercurial.

barometer maker, mercurial; makes any part of mercurial barometer, by hand; where barometers are to be fitted in a metal tube, turns length of tube to required size in a mechanically-driven lathe; fills tube with mercury, and, after testing quantity of mercury in tube, seals up tube in blow flame; sometimes also makes screws, used in assembling barometer, in an automatic screw-making machine; assembles barometer parts; cf. barometer assembler, mercurial.

barometer mounter; (i) see barometer assembler, aneroid; (ii) see barometer assembler, mercurial.

bencher, bench worker (scientific instruments); general terms for workers at a bench with vice and hand tools, fitting and assembling scientific instruments, e.g., microscopes, telescopes.

binoocular adjuster; field glass adjuster; a lens adjuster (q.v.) who eliminates errors of alignment in binoocular or field glasses.

binoocular assembler; field glass assembler; assembles, by hand, finished parts of binoocular or field glasses, using file, screwdriver, turn, etc., and fits lenses into position using a hand burnisher.

binoocular framer; field glass framer; a framer (q.v.) who finishes machined parts of frames for binoocular or field glasses by fitting, filing and polishing.

binoocular maker; field glass maker; an all round man who can make any part of a binoocular, i.e., can make any of the cells, mount lenses therein and fit them into the body of binoocular.

calibrator, see graduated.

camera assembler; (i) engaged, in firms working on mass production system, solely in assembling components to form a particular part, or section, of a camera, e.g., shutter, screwing, riveting, etc., with small hand tools as necessary; or, is engaged in assembling similarly, the already completely assembled sections to form finished camera; (ii) see camera finisher.

camera finisher; (i) camera assembler; fits metal parts of camera to body and baseboard, e.g., struts, focus pinion rollers, by screwing, riveting, etc., with small hand tools; glues-in bellows, fits-in lens and shutter and, after trial by focussing, indicates with pointing knife, distances on focussing scale; practices duties vary according to workshop practice and type of camera upon which engaged, cf. camera assembler, camera fitter; (ii) an instrument maker (q.v.) who makes very delicate adjustments, with small hand tools, to shutters of expensive cameras.

camera fitter; bores holes for screws in wooden camera bodies, cuts wooden surface to receive hinges, plates, and other fittings; fits together wooden parts and adds metal hinges, corners and other brass work; sometimes done by camera finisher or by camera maker (q.v.).

camera maker; makes wooden or metal camera bodies; cuts wood to size by hand-operated fretwork machine or with hand saw; planes, dovetails and sandpapers end pieces of wood with hand tools; for metal bodies, usually aluminium, stamps-out parts, using stamping press, drills with hand or machine drill, and polishes by hand; machine tool workers (204) and press workers and stampers (254) (q.v.) usually employed for mass production work; cf. camera cabinet maker (473).

chemical apparatus maker; general term for any person engaged in any process in manufacture of chemical apparatus, e.g., glass grinder, graduated, or divider, thermometer; but usually refers to a glass blower, e.g., clinical thermometer blower (q.v.).

clinical thermometer blower; a thermometer tube blower (q.v.) who specialises in clinical thermometers; cuts with file short lengths of special glass tubing to form stem and bulb; fuses ends in blow flame, draws out and seals in stem and bulb; draws out surplus glass with tweezers; loads with mercury either by placing open end of stem while hot in pot of mercury, or by placing in vacuum jar where by operating valves mercury is forced into tubes; seals open end with wax; softens stem in flame near bulb and forms constriction in capillary; tests scale in water bath against standard thermometer; if correct completes by closing end in blow flame.

clinical thermometer divider; a thermometer divider (q.v.) engaged on some or all processes of dividing, etc., clinical thermometers.

compass adjuster, ship's compass adjuster; adjusts balance of compass points by filing or otherwise; in case of compasses having fluid support for floating pointer, also adjusts level of compass.

compass maker, ship's compass maker; makes up compasses from stamped, pressed or turned parts; adapts parts as necessary, in fitting, with small hand tools or on small lathe; adjusts the parts, as for compass adjuster, and finishes by polishing or other finishing process.

curve cutter; cuts standard curves, using patterns, for use of draughtsmen, from thin sheet hardwood or celluloid by means of a framework machine, which he works either by switching on and off power-drive, or by foot treadle; polishes curves by hand, using various polishing materials.

cyclometer maker; assembles and fits together stamped, pressed, or die cast standard repetition parts of cyclometers, using small hand tools; files cuts, etc., parts as necessary in fitting.

dialist; draws, on paper, plan of proposed sun dial, having first ascertained latitude of place of its erection, and, for vertical dials, also bearing of wall on which to be fixed; sometimes also makes, by hand, model of proposed dial in cardboard; works out hour, minute, month and day markings by mathematical calculation.

divider, mathematical instrument; divider; marks fine measuring degree lines on rules or indicator scales, either (1) by hand with a marker or graver, using standard scales as patterns, or (2) by machine, under a rule in engine dividing machine and, measuring against various mathematical divisions shown on machine, operates, by hand, a swivel device governing cutting edge which marks divisions, circles, etc.; sometimes specifically designated, e.g., engine divider, hand divider.

divider, thermometer; thermometer graduator; is engaged on some or all processes of pointing, dividing and marking thermometer tubes; in pointing, places racks of filled tubes in heated water container, and, checking from a standard thermometer, marks tubes with a pointing knife at certain temperatures now reached; in dividing, dips tubes in beawax, or, receives them already coated; clips a coated tube under needles of dividing engine, and sets engine to mark required number of divisions between points; then pulls a hand wheel so that engine needles cut divisions in wax coating; as figure, works pantograph to trace figures, maker's name, etc., in wax; in marking tube, dips tube in bath of lacquer which marks tube where wax is cut; soaks tubes in paraffin to remove wax and acid, wipes tubes dry and rubs asphaltic black, or similar preparation, into divisions, figuring, etc.; cf. clinical thermometer divider, thermometer graver, thermometer pointer.

drawing instrument maker; dresses metal castings by hand, using files, etc., and finishes off with emery wheel or, machine, polishes them by hand, using fine polishing paper and then a buff stick; drills and screws together, if necessary, dressed castings to make drawing instruments.

field glass adjuster, see binocular adjuster.

field glass assembler, see binocular assembler.

field glass framer, see binocular framer.

field glass maker, see binocular maker.

framer (optical instruments), optician; turns on lathe parts of frames which have not been cast, for use in microscopes, etc.; feeds lathe with material and operates machine by means of hand levers; may also finish off by hand, thing etc.; cf. binocular framer, iris mount maker, graduator; collimator; (4) by comparison with standard instruments or by direct experiment under standard conditions, marks positions of graduations on measuring instruments for use in laboratory work; tests positions when scales require adjustment or readjustment; (5) from temporary marks so made, etches permanent indications.

trigradator, thermometer, see thermometer divider.

hand engraver (mathematical instruments); see mathematical instrument engraver.

heliograph maker; assembles machined parts of heliographs, i.e., apparatus for signalling by reflecting flashes of sunlight, and finishes them by means of small wheel, rag doll, file, or sand bath, as required.

hour glass maker; time glass maker; puts into a double glass bulb, having small hole at one end, a quantity of very fine sand sufficient to run from one bulb to the other in time required to be indicated; stops hole with finger and checks time taken for sand to fall into bottom bulb; adds or removes same sand if necessary; after testing, seals bulb in flame of blow-lamp and mounts it, by screwing, in metal or wooden holder.

hydrometer maker; makes hydrometers, instruments for measuring specific gravity of liquids or for ascertaining directly, by an adjusted scale, alcoholic content of fermented liquors; recovers blown hydrometer, cf. blower (134), and fills lower bulb with accuracy of shot, by hand; dips hydrometer into water having specific gravity of 1.00, and marks, with pointing knife, water level on stem; wipes instrument dry and repeats operation in fluid of 1.10 specific gravity; divides distance between two points, and marks, in degrees on paper or ivory, by means of dividing engine, cf. divider, thermometer, inserts scale inside hydrometer stem and tests to see if correct; seals junction between two bulbs by paring wax through hydrometer stem and fuses open end of stem in blow flame.

inclinator maker; makes levelling tubes of inclinometers, carved spirit levels, by heating pieces of glass tubing in hot lamp and forming to shape required; fills tube with spirit and seals off; mounts tubes so formed in a cast metal frame, marked with necessary graduation.

instrument maker (not electrical or scientific); generally, a term for a worker employed in making parts of scientific instruments, or fitting parts together; term also applied to precursors of one-man businesses who do their own making and assembling; jobber; does minor repairs to broken stamped-out spectacle frames, chiefly imported, by soldering; cf. spectacle frame maker.

lens adjuster; assembles lenses in mounts in correct position; collimates and eliminates errors of parallel in single optical systems; by throwing image of light on a screen and by altering thread of screw, obtains best defined image; tests alignment in binocular systems by throwing image of light on a screen.

lens assembler; takes an optical system in its elements, and mounts these, at a given separation, in a series of metal tubes or cells by screwing sections together upon lens, taking care to maintain optical alignment.

lens mount maker, lens setting maker; an optical turner (q.v.) engaged in turning settings or cells of lens mounts by means of an automatic lathe; turns to required thickness parts of cells which have been cast or stamped, pressed, or otherwise formed from sheet metal or tube (brass, aluminum, etc.); chooses screw threads on metal parts, either with a hand, or, with an automatic screw cutting machine; polishes parts by hand with a buff, or, with automatic polishing machine; smooths uneven movements, traces-up any parts bent or "out of true," assembles mount and fits iris, shutter, etc., in photographic lens settings, etc.; by hand; assembles same maker; makes throughout painted and graduated wooden levelling staves, used in surveying work, saws wood to length, by hand; removes roughness by sandpapering and, etc.; caps body with brass caps and bands slide, wad-bush, with strengthening ferrule; paints and

finishes stave, by hand, including painting of divisions and letters thereon.

machine engraver (mathematical instruments); see mathematical instrument engraver.

mathematical instrument engraver; (a) hand engraver (mathematical instruments); sketches on metal work of instruments design, etc., to be engraved, usually working from a blue print; engraves lettering or graduation marks by hand, using a graver; (ii) machine engraver (mathematical instruments); fixes in pantograph machine work to be engraved, and template engraved by hand engraver; by tracing over template reproduces, by means of automatic pantograph cutting tool, engraved pattern on metal; regulates pressure of cutter on material; removes engraved metal from machine.

mathematical instrument maker; general term for any worker engaged in any process of making mathematical instruments.

mathematical rule maker; makes mathematical rules in metal, wood or ivory; cuts to size with hand saw, plane, and file, or, by machine, by hand or machines; smooths and finishes off rule by hand, using file, sandpaper or other abrasive; sometimes also divides rule in dividing machine, cf. divider, thermometer, or, by hand, using marking tool, set square and scale; rules sometimes made by drawing instrument maker or by mathematical instrument maker (q.v.).

mechanical scientific instrument maker; an instrument maker (q.v.) who assembles and fits parts of various patent devices in which motive power is provided by clock-work.

meteorological instrument maker; general term for any worker engaged in making barometers, rain gauges, or other meteorological instruments; cf. aneroid barometer assembler, barometer assembler, mercurial thermometer tube blower, divider, thermometer, etc.

micrometer maker; an instrument maker (q.v.) who sets and operates machines in which micrometers are machined or dressed, ground, and, or, divided, or marked in degrees; accuracy of setting machines and in manipulating micrometers in working, etc., essential.

microscope maker, microscope constructor; an optical instrument maker (q.v.) who dresses, with hand file, and parts of microscope; turns other parts on automatic lathe and polishes all parts by hand or machine; drills, with hand or power drills, holes in frame parts for threads by hand with screw cutting machine or automatic machine; completely assembles parts, including lenses and iris, using small hand tools, and adjusts microscope to proper vision, by focusing; sometimes also grinds microscope lenses on small spindle lathe, either receiving roughly ground lenses or commencing with block glass; passes lenses through series of revolving moulds of increasing curvature on lathe, and proceeds as for hand finisher (138) (q.v.).

movement maker, aneroid barometer; fits plate, on which are fitted movements of barometer, by hand to correct size; makes vacuum regulator, pulley, pointer, etc., either with hand tools, or, by means of automatic machines, e.g., stamping, spinning, turning, screwing, drilling machines; polishes parts by hand with buff, or, machines; assembles parts with small hand tools and screws movements on plate; tests range, i.e., distance traversed by pointer, on dial, and reading of barometer by placing it in vacuum pump; if reading incorrect, adjusts barometer by means of screw fitted on the tension.

nautical instrument maker; general term embracing several occupations concerned with making instruments for use on board ship, e.g., compass maker, ship's log maker, sextant (brass) maker (q.v.), etc.

object glass cell maker; a lens mount maker (q.v.) who makes mounts for object glasses and optical instruments.

opera glass maker, or for lunular maker.

optical engineer, or optical instrument maker.

optical instrument maker, optical mechanic; optical engineer; general term for persons engaged in making optical instruments, including microscope maker, telescope maker (q.v.).

optical turner; turns, spins, polishes, and chases brass or aluminum parts of photographic lens mounts, telescopes, microscopes, etc.

optical instruments by means of automatic machines; feeds machines with material; sometimes polishes parts by hand, using polishing materials; sometimes assembles parts to form complete mounts and locates brass mortars.

parallel rule maker; makes parallel rules; for rolling rules, cuts strip brass to length by hand punch or machine; planes brass with hammer and planes smooth with hand of machine plane; levels one or both edges in leveling machine and drills brass with hand drill to receive screws; turns out rollers for rule and lifting knobs, on automatic lathe; makes decorative saw cuts on rollers by machine, and stamps, by machine, supports on which rollers are fitted; polishes finished rule by hand, using polishing materials; sometimes makes roller wheels on a wheel cutting machine; fits spindles through each roller and assembles parts by hand, using screws, screwdriver, etc., in making glass rules, cuts wood, ivory, or metal strips to size, hand or machine, levels edges by machine and polishes by hand; cuts and shapes strip brass with hand tools or stamps it out by machine, fits brass bars so formed, across to wood, etc., strips, with screws, to complete parallel rule; work sometimes done by drawing or mathematical instrument maker (q.v.).

pendulum maker; assembles and adjusts machine-made parts of pendulum, and fits them in metal case.

pressure gauge maker; makes steam, water or air pressure gauges; (i) turns or cuts, on automatic lathe, from blanks or castings, various parts, e.g., plungers, quadrants, etc., by power machine; pressure tube of gauge, and bends same by hand, using blow flame; polishes parts by hand or machine, and assembles, by hand, using hand tools; tests complete gauge by means of a pressure pump; (ii) less skilled, assembles, by hand, using small hand tools, machined parts of pressure gauge; fits by filing, etc., and tests finished gauge by means of pressure pump.

revolution indicator maker; speedometer maker; assembles and fits together turned parts of revolution indicators, speedometers, etc., together with hair spring, clockwork, indicator, dial, etc., using small hand tools; polishes up indicator by hand with polishing materials, and tests, by attaching it to an electrically-driven standard revolution indicator; alters tension of springs on dial if indicator not up to standard; often also does similar work in making, e.g., air speed indicators; cf. air speed indicator maker.

rimless fitter; drills holes in lenses with power driven diamond drill; fixes lenses in mounts and secures with small screws, using hand tools.

saccharometer maker, or for hydrometer maker.

sextant frame maker, sextant maker; turns castings of automatic lathe to form sextant frames; mills certain parts on lathe; finishes by

hand, using files, etc., and polishes by hand.

ship's log maker; makes parts of ship's log in copper or brass, by turning, machining and filing, and assembles, and adjusts them.

spectacle maker, spectacle frame maker; makes up frames or mountings of spectacles, eye-glasses, pince-nez, etc., in steel, nickel, rolled gold, gold, or other metals; if necessary, first draws his own wire through dies; fashions frames with small hand tools, and solders joints using soldering iron, etc.; fixes in position, with screws or solder, supports which hold "sides"; if necessary, cuts tension springs, with hand pliers, and solders same on support bar of eye-glasses by hand; sometimes, although seldom, makes own screws, using screwing machine; cf. jobber.

speedometer maker, see revolution indicator maker.

spirit level maker; (i) cuts wood or sheet metal to size, by hand, to form case of spirit level, using saw or hack saw, and polishes-up case by hand; fits level in case and screws with clamps into position; silver- or metal cases, and covers; sometimes puts spirit into level from a container, and fuses open end of level in blow flame; (ii) assembles spirit level in a finished case, and fixes in position cover for levels and scales, with screws.

steam gauge maker; a pressure gauge maker (q.v.) engaged in making steam gauges.

sun dial maker, an instrument maker (q.v.) who cuts and smooths surface of brass sheet for sun dial, by mechanically driven machines or by hand; also does to polished, with hand, marks hour, minute, month and day divisions on dial with sharp edged tool and straight edge, from plan supplied by dialist (q.v.); screws noses into position on dial, with screwing tools, by hand.

surveying instrument maker; general term for any person engaged in making surveying instruments, e.g., levels, alidades, etc.

tape measure maker (steel); takes steel tape of tape measure after it has been marked; polishes rivets in end to winding axle; winds in leather, metal, or fibre case, and rivets on loop by which it is drawn from case; sometimes cuts, and screws into position, actuating spring; in small factories, may also perform duties of tape measure maker (q.v.).

tape measure maker (steel); passes lengths of steel tape through a marking machine, in which measuring rollers, engraved in relief, mark or cut through a fine coating of acid to be etched on the tape; or, similarly, marks where spaces between lines are to be etched in a subsequent bath of acid, so as to leave a raised series of marks and figures.

taximeter fitter, taximeter maker; assembles, fits by filing, drilling, screwing, polishing, etc., and generally polishes machine-made parts of taximeter.

telescope maker; an optical instrument maker (q.v.) who draws from stock, builds-up by hand, and screws into position, component parts of telescope; screws in position lenses, mirrors, already mounted in necessary, adjusts telescope by focussing; sometimes makes his various mounts by turning same on automatic lathe, and polishing them by hand with polishing materials.

thermometer fitter; figures thermometer; is engaged in works where operations of pointing, dividing, etc., thermometers are subdivided among different classes of workers; cf. divider, thermometer.

thermometer pointer; points thermometers; is engaged in works where operations of pointing, dividing, etc., thermometers are subdivided among different classes of workers; cf. divider, thermometer.

thermometer maker; general term covering thermometer tube blower, thermometer divider, thermometer mounter (q.v.).

thermometer mounter, thermometer maker-up; mounts thermometer in a wooden, metal, ivory or glass frame by hand, using small hand tools; screws thermometer into position on mount with clamps and screwdriver; sometimes cuts special mounts from thin sheet brass, by hand, and may also mark divisions of thermometer scale on lacquered or brass mounts, by sliding a gauge along mount and marking divisions with knife; sometimes draws, using dies.

thermometer tube blower; blows thermometer tubes from glass cane, according to particular type of thermometer, e.g., small bore tubing, lens fronted, opaque barked, and ordinary glass thermometer; files and shapes tubing into required length; forms bulb, loads tube with mercury, as for clinical thermometer blower; bends tube or otherwise shapes to form particular kinds of thermometers.

time glass maker, or hour glass maker.

323.—WATCH, CLOCK AND CHRONOMETER MAKER AND REPAIRER.

adjuster, watch and clock adjuster; *springer, springer and tour, time;* receives watch or clock from assembler (q.v.); cuts through the balance with a file or on machine lathe to allow for expansion of metal; adjusts and finishes, with small hand tools, hair spring on collet, i.e., bed for jewel; sprouts, and sets up, by means of vibrator, i.e., marker, balance; inserts balance and spring into watch and finally regulates, ready for use.

assembler; finisher, putter-together; assembles or puts together works of watchmaker and clockmaker; or mounts internal parts in case, or "carcass," after adjusting them.

chronometer maker; makes up chronometer from standard parts, assembling and adjusting fine intricate movements of chronometer by means of hand tools; sometimes subjects chronometer to hot and cold tests, and adjusts its regulator accordingly.

clock cleaner, see watch and clock cleaner.

clock dresser, clock fitter; a clock maker and repairer (q.v.) engaged in cleaning or repairing clocks.

clock fitter, fitter; a person in position large clocks used in towers of churches, town halls, etc., from parts which have been assembled and adjusted in workshop; fixes dials and movement in frame; connects pendulum, weights and bolts; starts clock and sets it to time.

clock jobber, or for watch jobber.

clock jobber and winder; a clock maker and repairer (q.v.) who contrives to keep clocks wound and in good order.

clock maker; (i) general term for a person engaged in any process in clock making; **(ii)** see clock maker and repairer.

clock maker, automatic; a clock maker (q.v.) engaged in making automatic clocks.

clock maker, time recording; assembles, fits together, and adjusts parts of time recorders; sometimes also cuts, dresses, and finishes the metal or wooden parts before assembling.

clock maker, turret; builds up and makes parts of turret clocks from stock parts; or makes to drawings detailed parts of such clocks; files and cuts clock parts, and drills holes for pinions; cuts and turns pinions in pinion cutting machine; cuts wheels from blanks in wheel cutting machine; fits up the whole assembly in frame; polishes all parts on buffing machine; may have turning work done by turret clock turner q.v.

clock maker and repairer, clock repairer, clock maker, watch and clock maker, watch and clock repairer; (i) a skilled man, familiar with all processes of clock making, and principally engaged in repairing and cleaning clocks; (ii) a shopkeeper or assistant selling clocks and watches and undertaking repairs to customers' clocks or watches, *cf.* clock maker, and watch maker.

clock turner, turret; turns on lathe parts of turret clock; or turns up and cuts, on special gear cutting machine, wheels, pinions, etc., of large clocks; usually done by turret clock maker (*q.v.*).

examiner; examines and tests watches or clocks or, sometimes, chronometers, after any one process, or after completion of making; is transferred, as required, from one department of works to another, hence method of testing varies accordingly; in general, works with small hand tools, *e.g.*, examining wheels to revolve in order to inspect action of watch, and ensures that parts are properly made and fitted.

finisher, see assembler.

horologist; designs mechanism of time keeping movements and improves them by scientific research; usually an authority on the history and practice of watch and clock making.

putter-together, see assembler.

springer, springer and timer, timer, see adjuster.

time recorder repairer; a clock maker (*q.v.*) who visits factories and workshops and keeps time recorders in good repair; replaces broken parts such as springs, screws, rivets; cleans and repairs clock movements as required to maintain clock in going order.

watch cleaner, watch and clock cleaner; clock cleaner; a clock maker and repairer (*q.v.*) principally engaged in cleaning watches and clocks; dismantles movements, cleans parts, removing and replacing them where defective, and re-assembles.

watch and clock jobber, or for watch jobber.

watch and clock maker, watch and clock repairer, see clock maker and repairer.

watch jobber; watch repairer; repairs watches for the trade; and makes parts required for renewal, when necessary.

watch maker, watch maker and repairer; watch repairer; (i) general terms for any person engaged in making watches, now usually done almost entirely by machinery, on the sixty divisional system; (ii) a skilled workman, familiar with all processes of watch making and principally engaged in repairs; (iii) a shopkeeper or assistant selling watches and clocks, and undertaking repairs to customers' watches; *cf.* clock maker and repairer. **watch repairer;** (i) see watch jobber; (ii) see watch maker.

324.—WATCH AND CLOCK MOVEMENT MAKERS.

arbor maker; makes on semi-automatic machine or on lathe, hollow spindles or cranks used in watch and clock making.

balance maker, rim balance maker, compensation balance maker; turns and polishes on a small lathe, from blanks, balance wheels of clocks and watches; drills rims to take on screws and fits screws to balance wheels.

balance screw maker; makes, in precision lathe and automatic device, steel or brass screws used in balances of clock and watch.

balance spring maker; maker, winds and forms, from bulk lengths, fine springs used on balances of clocks and watches; coils up on special contrivance, by hand, coil springs of balances.

barrel maker, barrel and fusee maker; makes brass cylinder cases, in which main springs of watches and clocks are housed, by stamping in

power presses or by turning in lathe, or by a combination of these operations.

bolt maker, bolt and joint maker; watch motioner; turns, in automatic lathe, bolts or pins used in clock and watch making.

bore-drill; attaches keyless movement to case, using small hand tools, and corrects badly fitting parts of keyless motioner, keyless work maker.

bridge maker; stamps or presses from sheet brass, or cuts from bar into required form, bridges used in clock and watch making.

cap maker; stamps or presses from sheet metal, caps used in watch and clock making by means of hand press; fits dies in press, positions sheet metal, operates press by lever, and removes stamped caps.

chronometer escapement maker; an escapement maker (*q.v.*) making escapements for chronometers.

chronometer movement maker; a clock movement maker, or a watch movement maker (*q.v.*) who specialises in making movements of chronometers, from stamped or pressed blanks, by means of files and small hand tools and watchmaker's lathe.

click maker, see detent maker.

clock chain-maker; makes up chains for use in clocks, by turning links, assembling them and brazing them.

clock material maker, clock movement maker; movement maker; stamps, cuts, or turns parts of clocks in a press, on a lathe, or on a wheel-cutting machine.

cock maker; makes bridges for balances or pallets of watches and clocks; work usually done by movement maker (*q.v.*).

cog maker, see wheel cutter.

detent maker, chronometer detent maker; click maker; makes detents actuating on ratchet, for maintaining power during winding of chronometer or fusee clocks and watches; files detent from solid steel and screws fine gold spring theron.

dial maker, enamel; or for dial maker.

dial maker, dial plate maker; cuts dial of watches or clocks from sheet metal, brass, gold, silver, etc., by press or guillotine, after which dial is engraved by dial engraver (253) (*q.v.*), fits "legs," *i.e.*, brass lugs at edge of clock, sometimes specially designated, *e.g.*, gold dial maker, silver dial maker.

escapement maker; makes escapement of watches or clocks; stamps-out wheel, by means of hand press, from blanks, and cuts-out teeth by means of revolving sapphire cutter; bores wheel in centre; stamps-out pallet and lever and bare lever, *cf.* pallet maker; turns roller on lathe, and pierces it for prepeg pin, introduces metal crescent and polishes it on lathe; *cf.* escapement mateber, escapement pitcher.

escapement mateber; machine with rotating, watches wheel and pallet, also lever and roller, to fit watch so that it functions correctly, *cf.* escapement maker, escapement pitcher.

escapement pitcher; fits wheel and roller on arbor, *cf.* arbor maker, also roller and lever; adjusts correct depth by means of depth tool and inscribes position of above parts on pillar plate of movement; "banks" pillar plate by drilling holes and fitting banking pins to pillar plate; *cf.* escapement maker, escapement mateber.

escape wheel cutter; a wheel cutter (*q.v.*) engaged in cutting escape fins on escape levers, "banks" first hand door and pivoter, *see* pivot maker.

frame maker; makes frames for support of movements in watches, clocks, etc.; stamps-out top plate by means of hand press, drills pillar holes on

treadle lathe, turns sink for hand; stamps-out pillar plates, turns sink for wheels, and drills holes for screws; fits screws in pillars to both plates, and fits a top plate and a pillar plate together loosely.

fusee arbor maker, fusee cutter, fusee maker, fusee cap maker; makes on a lathe, sometimes from castings, part of chronometers known as fusee arbor, *i.e.*, spirally stepped wheel, mounted on an arbor, *cf.* arbor maker, designed to equalise pull of mainspring, which is wound round; obsolete in watch and clock trade.

fusee chain cutter; cuts clock lengths of wire into suitable sizes with wire cutting hand tool, for fusee chains of time mechanisms, *cf.* fusee arbor maker.

fusee chain finisher; finishes and prepares ends of fusee chains, with hand tools, in readiness for insertion into movements.

fusee chain hook maker; fusee chain wire passer; makes hooks of special pattern to be attached to ends of fusee chains; takes stock lengths of wire, shapes with hand tools and points ends in lathe.

fusee chain link maker, fusee chain maker, fusee chain riveter; makes links, by stamping on press, assembling and riveting links, and adjusting to form fusee chains used in time movements.

fusee chain wire pointer, see fusee chain hook maker.

hander; fits hands, hour and minute wheels and cannon pinions to movement, using small hand tools.

hand maker, watch hand maker; stamps hands of watches or clocks from sheet metal, in fly or pour press and dresses and cleans them by polishing and by bluing or lacquering.

index maker, see regulator maker.

jewel hole maker; drills holes in which jewels are set to act as bearings in watches or clocks, using jigs and precision tools.

jewel setter; roller pin maker, ruby pin maker, watch jeweller, setter; sets and mounts jewels such as pinions in watch or clock mechanism; selects suitable jewel; often cuts trace rough and polishes it, by means of small trundle lathe, cuts suitable hole in metal bed of watch, leaving a small overhanging edge; inserts jewel, and bonds over edge to retain jewel in position.

keyless adjuster; adjusts, with small hand tools, hairs and screws to cause the negative set watches, *i.e.*, requiring withdrawal of wheel for setting; fits bar attached to winding knob, by filing, and similarly fits and adjusts sleeves, *i.e.*, parts holding wider in position.

keyless button maker; forms, by stamping or turning in special machines, corrugated winding buttons of keyless watches; turns brass foundation and drills hole through on a lathe; turns fused porting on a turning machine, and sweats it on brass foundation.

keyless motioner, keyless work assembler; screws work of keyless watches on to movement and adjusts, with hand tools, the depths, *i.e.*, distances of parts from upper, or pillar, plates; *cf.* boxer-in, keyless work maker.

keyless work maker; cuts keyless wheels, winding pinion and rocking bar for keyless watches on either power-driven or foot lathe; sometimes also does work of boxer-in and of keyless motioner (*q.v.*).

lever and roller maker, lever escapement maker, see pallet maker.

mainspring maker, spring maker; (i) stamps machine making clock springs; feeding strip steel into machine; (ii) makes main springs for clocks in small lots by hand, placing several

thickness together and winding them into a tight coil on a small lathe; heats coil after winding and hardens spring in oil.

motiflower; makes and fits, by means of file and hand drill, point to movement, and fits bolt in watch where movement can be swung-out on joint clear of case.

motion maker; makes the toothed wheels, directly controlling minute and hour hands, by stamping in press or by cutting in a wheel cutting machine.

movement maker (clock making) see clock material maker.

movement maker (watch making); watch movement maker; general terms for arbor maker, barrel maker, bridge maker, cock maker, detent maker, frame maker, etc. (q.v.); the same worker may be engaged in making more than one of the articles named.

pallet maker; *lever escapement maker*, *lever and roller maker*, *watch pallets*, i.e., part of escapement of watches or clocks conveying impulse from train wheel to balance or pendulum; presses-out steel pallet by means of hand press, slots it to take jewels, using circular cutting machine; fits rough jewels and polishes surface to correct shape and depth to suit mounting of pallet.

pendulum spring maker; cuts, drills and prepares from strip steel or brass, or lathe or by special cutting and drilling machines, springs used in suspension of pendulums, cf. main-spring maker.

pillar maker; turns from brass or steel rod, an index or automatic machine, dial, or piece or pillars used in ironing of timing movements.

pinion maker; makes pinion wheels used in watches, clocks, etc.; inserts length of steel in automatic lathe, when cutting tool automatically traverses steel and shapes pinion; hardens and tempers shaped steel, and polishes it on revolving wooden dials.

pinion pivoter; see pivot maker.

pin maker; cuts, from wire, with hand cutting tool, and prepares, pins used in frames of watches, clocks, etc., by pointing them in a lathe; normally done by watch maker (328) (q.v.).

pivot maker, *pivoter*; *first half deer and pivoter*, *pinion pivoter*; turns points, or "pivots," or pivots, or "pivots," of centre, third and fourth wheels of watch, on a lathe, and adjusts, by means of small hand tools, barrel of watch, i.e., makes it work freely upon its own arbor, cf. arbor maker, and to fit the mounting; engaged only on hand made watches.

ratchet maker, see spring and click maker.

regulator maker; *index maker*; makes, by stamping in hand or machine press, from sheet metal, pointers which engage with balance springs for regulation purposes.

roller pin maker, *ruky pin maker*, see jewel setter.

seconds hands maker; a hand maker (q.v.) engaged in making second hands.

setter, see jewel setter.

spring and click maker; *ratchet maker*; stamps and presses springs by hand, by or machine press, from sheet steel and hardens them by heating and then immersing in oil; also makes clicks, used as stop ratchets in spring winding, in same way; sometimes done by watch maker (328) (q.v.).

spring maker, see main spring maker.

verge maker; makes, by hand, odd fashioned escapement movements of verge watches, obsolete.

watch and clock material maker, see for clock material maker, and movement maker.

watch jeweller, see jewel setter.

watch motioner, see bolt maker.

wheel setter, *wheel maker*; *rog wheel*; (i) drills hole in centre of wheel blank in drilling machine; fits blank on pinion in wheel cutting

machine, sets cutters and arranges gears of machine according to number of teeth to be cut; controls machine by levers and watches for any faulty work; (ii) allows and feeds with blanks an automatic machine making one class of wheel only.

wheel mounter; fits wheels to pinions and rivets them on.

325.—WATCH CASE MAKERS.

case joint finisher; case solderer and joiner; finishes and adjusts joints of hinges and snaps of watch cases, with small files and fine tools; solders on pins and joints of watch and clock cases.

case maker, *chronometer case maker*, *watch case maker*; makes cases of metal for watches or for clocks; for the former, by stamping or pressing from sheet metal in hand or power press; and the latter, by cutting and brazing together parts and ornaments to form clock cases or "cassocks"; often further designated according to metal used, or to type of case made, e.g., silver case maker, gold case maker, filed gold case maker, pocket chronometer case maker.

case pendant and bow maker; forms, from wire, with a special tool, rings of silver and other metal used for attaching watches or clocks to chains.

case plinner; cuts pins from wire, and inserts into case joints; pins end of joints with silver, gold, etc., and trims off end.

case solderer and joiner, see case joint finisher.

case springer, *case secret springer*; *secret springer*, *secret spring maker*; fits and files or secures into position, in hand of watch case, two springs, one under plunger and other connected with hinge, which enable face or back of watch to be closed, or, on pressure, to spring open.

secret springer, *secret spring maker*, see case springer.

silversmith (watch cases); a case maker (q.v.) making silver cases.

328.—OTHER SKILLED WORKERS.

dial embellisher; cleans surface of dials of watches, clocks, etc., with emery cloth or with damask and turpentine, covers one side of dial with white or other coloured enamel, by hand, with camel hair brush, places enamelled dial in stove and heats for several hours; on removal, rubs down enamelled dial with brick dust and flannel and finally polishes dial by hand with damp cloth and rotten stone; attends stove fire by feeding with coal when necessary.

dial painter; paints dials of watches and clocks with a group of figures, which figures are laid by dial writer (q.v.).

dial writer; prepares watch or clock dial by marking hour, minute and second markings, using drawing instruments, scales, etc., and ruling point; also marks figures on dial with tracing point; paints in figures and markings with enamel, with hand brush; if necessary, applies transfer figures to dials from a sheet, by hand, using an adhesive; sometimes, only letters and galleys-in figures, etc., engraved on dial by dial engraver (283) (q.v.).

drymaker, *jumbler*; makes chronometer fittings on a lathe and finishes them with hand tools; screws them into box or case, including gymbals, i.e., two metal circles on which chronometer rests and balances itself.

pendulum maker; fills with lead and solders together moulded or pressed sheets received from stock; paints one half of weight with lacquer when hot and brings up brilliant polish on buffing machine when dry; cuts rod to length from strip metal with hacksaw; cuts notch in top and rivets in tempered steel strip.

329.—OTHER WORKERS.

finisher; carries material, sweeps up, runs messages, and does other unskilled work in watch and clock works.

screw maker, *watch screw maker*; inserts steel or brass rod into automatic machine which cuts and shapes it into screws for use in watches or clocks; also machine when necessary, and occasionally separates out waste from delivery through; supervised by charge hand (321) (q.v.).

ORDER XI.—WORKERS IN SKINS AND LEATHER AND MAKERS OF LEATHER OR LEATHER SUBSTITUTE GOODS (NOT BOOTS OR SHOES).

Sub-Order I.—Furriers, Skinners, Tanners and Leather Dressers.

331.—FOREMEN (INCLUDING HEAD WAREHOUSEMEN AND CHIEF SORTERS).

chamber master; an workover or middleman who obtains fur skins from wholesale manufacturers and makes them up at home or on own premises, frequently employing other labour.

chief drum man; *drum head gangster*; in charge of process of leathering hides and skins in drum tumbler, i.e., revolving cylinders; supervises drum staffs (334) and drum lasequers (332), skins and emptying drum tumbler; responsible for output; usually also directs labourers who bail various grades to make stuffing mixture used in leathering process.

chief pumper and liquor blender (leather); responsible for correct mixing of lime, tallow and tanning liquor, see liquor blender (338), also in charge of pump circulating liquor in pits, see pumper (340).

chief rounder; supervises work of rounders (394) (q.v.) engaged in cutting up raw hides and skins or leather into specified sections; when dealing with hides and skins sometimes also supervises classifiers, sorters and measurers (335) (q.v.); checks output and keeps record of attendance and time keeping; responsible for engagement and discharge of rounders.

chief sorter; head of sorters; receives daily list of orders from office; responsible for dispatch of correct quantities and qualities of leather; must know various grades of leather and their uses in different trades; (ii) supervises sorters (336) (q.v.) and warehousemen (340) engaged in sorting and grading leather; checks output; may also supervise rounders (338) (q.v.).

chief splitter; supervises work of splitters (339) (q.v.).

drum house ganger, see chief drum man, *foreman mill hand*; *millman*, *mill room foreman* (for skins); supervises sorters (332), millmen (334), and drum staffs (334) (q.v.) in mill room; knows correct duration of process for each class of skins; examines skins on arrival and gives directions as required for damping, liquoring or pickling of furs; responsible for engaging and discharging of mill hands; *line foreman*; in charge of line pits; responsible for operations of soaking and liming hides and skins; instructs labourers filling pits with lime, regulates water supply in pits; sometimes also supervises finishers (335), unharers (333) and baters (333) (q.v.).

millman, *mill room foreman* (for skins), see foreman mill hand.

shed foreman; in charge of drying sheds in which raw skins are being dried after tanning process, and directs and supervises labourers employed therein; is responsible for maintaining correct temperature in sheds; keeps records of quantities of skins or hides received into and passing from sheds; sometimes also responsible for workers engaged in filling certain classes of leather.

setting machine operator; a water-rod (q.v.) who passes leather between rollers or under rollers, cylinders, or machines, whereas it is stretched and stretched to its utmost extent.

shoaner; one who skins on cloth, and passes it through shaving machines, to remove hair in layers to thickness required; usually performed on fur skins, e.g., rabbit, marmoset.

skinman, other; puts size on leather by hand dipping, or spreads it by hand.

skinner; (1) removes excess of oil and grease after currying or stuffing, with hand tool called "skinner"; usually done by corner (q.v.); (2) stretches hide by hand; stretches or "lags" down both sides of hide in semi-dry state by hand or machine.

smeerer; after, skin color; applies oil or grease to surface of leather, by hand, to preserve and soften it; usually a table hand (q.v.).

softener, leather; skin softener, see skinner.

staker; leather stuffer, skin stuffer; picks and stretches dressed skins or pelts, or leather after drying, on a staking machine, or by hand with special staking knife, to render them soft and pliable, and to cut any fibre on flesh side, e.g., staking machine operator.

staking machine operator; a staker (q.v.) who passes leather into machine which grips and dries it, thereby softening leather; accurate power-drive of machine.

stocker, stockman, stockman, see millman.

stuffer, hand; applies grease to leather with brush or by hand, carefully judging probable effects of different degrees of humidity in leather and atmosphere.

stuffer, drum; drum carrier; supervises drum laborers (339) who fill with hides drums containing stuffing mixture, and remove them when impregnated; keeps drum tumbler supplied with grease, regulates hot air supply to drum tumbler; sometimes mixes ingredients of stuffing mixture.

table band, table man, carrier's table band, carrier's table man, see carrier, table.

trusser, trusser; paints dressing of surface of hide on flesh side of skin, which is stretched over tumbler for purpose, to facilitate subsequent removal of wool.

waxer, waxman; (1) dips fully dried chromed hides in warm wax; (2) a staker (q.v.) who applies black wax side to flesh side of leather for back uppers.

wholier, wholier; who skins (hides and skins); a wholier (q.v.) who whitens hides and skins, i.e., passes fine shaving from surface, by pushing hide under revolving wheel, covered with coarse emery paper, of whitening machine; e.g., wholier (pelt) (338).

whitener; (1) shaves to fine surface, by hand, flesh side of hides or skins, with slicker, i.e., metal or emery tool, which is passed through hide or skin; (2) (machine whitening) see wholier.

335.—ENAMELLERS, JAPANNERS, DYERS, STAINERS, AND FINISHERS.

blacker, see fanner and seasoner.

brusher (fur dressing); brushes, by hand, tanned fur after pelt has been leached.

brusher, glove; applies dye to material used for use in glove making, with hand brush.

brusher (tanning, etc.); brush polisher, leather polisher, polisher; passes tanned leather under revolving brush, to clean and polish in colour black; weighs out various dyes in powder or crystallized form, by hand, on small scales; adds water, usually working according to formula; when matching a particular colour, tries various combinations until desired result is obtained.

dry boiler; alkaline dye pan, in which certain dyes are boiled up with water in readiness for dyeing.

dye, skin dye, skin rug dye, vat dye; weighs out dyes according to formula; knows properties of various dyes and their action on different skins; gives instructions to laborers as to amount of water to be added and filling of vats

or drum tumbler; either immerses skins in vats or applies dyes with brush; or gives directions to laborers as to immersing skins in vats and their removal therefrom or as to filling drum tumbler with skins and length of time tumbler should be in motion, or as to applying dye to fur skins by hand with slicker; sometimes specially designated, e.g., skin dye, glove dye, hat leather dye, vat dye.

dye, blue vat; immerses skins in vat containing blue-black dye, to produce black leather.

embosser; printer; (1) closes roller of type required for particular class of grain or design and fits it into power-driven roller press; switches on or off power, passes leather, by hand, between revolving roller and bed of machine; (2) in same way operates a plate embossing machine.

enameller, leather enameller; japanner, leather japanner, leather storer; gives a hard coloured surface to leather by coating it with varnish or colloidal spread thickly by hand, brush or slicker, i.e., a small hand tool; dries leather in heated chamber.

facter; (1) applies, by hand with a brush, a solution to small skins to fix dye; (2) applies solution to larger drum of drum with skins; switches on or off power which causes drum to revolve; releases drum when drying operation is complete.

finisher, leather finisher; general term for workers engaged in any finishing process in leather manufactures, e.g., embosser, leaver (q.v.).

finisher, levator, see levator dresser.

fanner and seasoner; blower; applies glutinous or albuminous mixture to back leather, etc., by hand with brush, to impart a gloss or finish.

gilder, leather gilder; (1) applies albumen composition to leather with brush; lays gold leaf on surface so prepared with knife or pad; heats metal tool in gas flame and presses it on gold leaf; wipes off surplus gold with a pad; (2) applies gold size to leather with a brush; paints surface so prepared with gilding composition.

grinder; dyes or colors sheet fur nearest to skin, by "stinking" it with a special brush dipped in dye.

hat leather solutioner; spreads solution on skin intended for hat leather with a brush; polishes skin by hand with brush or pad, to give a finish or gloss.

ironer; (1) irons hide leathers by hand or machine, to give finish; (2) passes leather into hand or machine press fitted with heated plates; manipulates hand levers to regulate pressure.

japanner, leather japanner, see enameller.

leger; applies dyes or pigment, by hand, to surface of leather, the quantity depending on condition of leather; passes it beneath oscillating bar or brush of lever machine, which gives leather a glazed surface.

leather storer, see enameller.

levator dresser, levator; levator japanner;

(1) works up natural grain of goat skin by hand, after it has been dyed, using a board called a "cock," which he rubs on back of skin; (2) produces an imitation goat grain on skins by passing through a machine fitted with pattern rollers; e.g., printing machine feeder (335) and grainer (334).

oil; a smearer (334) (q.v.) who applies oil to leather, by pad or with a brush; e.g., millman (334).

padder; applies a surface dye to fancy leather by passing leather between rollers, one of which is polished with slicker with dye, adjust rollers; controls power-drive of machine by lever.

polisher, brush polisher, leather polisher, see brusher (tanning, etc.).

printer, see embosser.

printing machine feeder; passes skins under roller of rotary machine or places them under piece of plate machine, to give imitation grain to surface; e.g., levator dresser (335) and grainer (334).

Spanish leather dresser, Spanish leather roller; (1) supervises various workers, e.g., finisher (335), rollers (335), polisher, dyer or skinner (q.v.),

engaged in preparing Spanish leather, i.e., leather with special antiqued finish; (2) runs machine for worker engaged in any operation, e.g., roller, printer, dyer or staining, incidental to production of Spanish leather.

sprayer, pistol; sprays leather with dye, using a reciprocating machine, to give a special gloss or coloring; regulates pressure of air which expels dye from sprayer.

stainer; prepares and mixes dye or stain according to formula; applies it to surface of leather by hand, with brush or pad; e.g., dyer; sometimes specially designated, e.g., glove stainer.

table band, table man; stretches skins after drying on table; works in a top color to make colour uniform on skins blotchy owing to uneven dyeing; e.g., carrier's table hand (334).

tipper, topser; applies dye or stain to upper layer of cheap fur with brush to give it the appearance of rarer kind; imitates natural markings of the latter by varying stain.

338.—OTHER SKILLED WORKERS.

beam man, beamman; (tanneries) general terms for any worker, e.g., baze staver, leather fitter, sculler, skinner (q.v.), who works at a wooden beam over which skin is stretched, scrapes flesh, hair, etc., from hides and skins, by hand, with knife.

bearer (fur skins); bears fur with care under supervision of tanner (q.v.), after fur has been leached and cleaned, to make fur skin give its fully appearance.

belly roller; a roller (q.v.) who passes belly leather, i.e., belly part of tanned hide, between rollers of machine to make it firm and smooth.

blabber, see blabberer.

bloomer, see seamer (leather).

blower (rabbit fur); like rabbit fur, by hand, into hopper head of blowing machine, which blows it by compressed air over picking beds, thereby removing dust and separating fur into fine and coarse qualities.

blubberer, blubberman; blubber; stretches and skin on leather or beam, and scrapes both sides of hide, by hand, with a two-handed knife.

brusher; (1) (fur skins) brushes tanned fur of pelt with hand brush, after they have been leached; (2) (rabbit skins) brushes fur of rabbit skins with hand brush before operations of cutting, opening and pulling to dispersion, fur.

buffer, roller; like lever from grain surface of hide, by hand or on emery wheel machine; e.g., wholier.

burrer; burer; removes vegetable hairs and other foreign matter from wool or fur of skins, by passing them between rollers of a machine.

buzzer (skin yard), see harner.

carrotter, fur carrotter; (1) applies mercury nitrate to fur side of rabbit skin with a brush to dissolve natural grease of fur, and thereby cause minute fibres in fur to stand out separately; (2) fills trough of extracting machine with mercury nitrate, which drips on revolving brush of machine; removes rabbit skins into this revolving brush, in preparation for gabberer (q.v.).

classer, classifier; classifier, class sorter, leather sorter, skin sorter, sorter, warehouse sorter; examines hides and skins after overgreasing and drying, and grades them according to quality; stamps them with metal die for purposes of identification; usually measures them, as measurer; checks grades and weights with invoice; sometimes also in charge of sack stretch and repacker (336) (q.v.); also examines hides and skins on a factory, grading according to quality; ties up skins in bundles or directs laborers who bundle hides and skins; sometimes specially designated, e.g., hide classer, skin classer, leather classer.

classer (follomany); skin selector; sorts skins into grades and grades according to quality and length of wool or fur.

cleanser (follomany); grease seamer, washer; washes skins (with wool on) with soap and water, by hand, or in mangle rolling machine, for rug making; usually works in tank and draws skins through water by hand or with long-handled hook,

cleanser (for dressing); tends revolving drums in which fur skins are cleaned with sawdust.

cleaver, *see* fletcher.

clipper, *see* trimmer.

conditioner, *see* danner.

conditioner and pincer, combines work of danner and pincer (q.v.).

curer (skins); *procurer*; preserves skins by dressing with salt, alum, etc.

cutting, concave, *see* enter, rabbit skin.

cutting, rabbit skin (fur felt); *convey* enter; passes rabbit skin by hand under power-driven revolving blades of cylinders of machine, which cuts fur from skin; cuts fur and skins in separate operators and passes fur to carrier (q.v.).

cutting (tanning); *see* rounder (leather).

danner; *conditioner*, *softener*; maintains leather to ensure even drying, in preparation for currying, shaving, or splitting.

dehairer, *see* unhairer.

doler (glove leather); passes flesh side of tanned glove leather with a special tool on a flat table.

dryer; *leather drier*, *skin drier* (leather); *skinner*; stretches skins on hanks with nail or iron clips on frames; hangs it on poles in drying room or places it on moving rack which carries it through drying rooms; controls power-drive of rack.

dryer (not drying sheds); (1) tends revolving drums, in which washed or dyed skins are dried by expelling water centrifugally; (2) *see* washer.

eager and tender, *see* tawer.

emery wheel buffer; a buffer (q.v.) using an emery wheel machine.

examiner, *see* classifier.

fellmonger; general term for any person employed in fellmongery trade, e.g., washing sheep skins, pulling pelt side of skins with chemicals to facilitate subsequent pulling, pulling wool from skins, sorting wool into grades, dressing skins, i.e., removing flesh and fat, drying the wool after pulling.

flesher (for skins); hand fletcher; *cleaver*; uses single-edged knife having two projections, which is driven into an upright post; sets blade post, drawing fur, by hand, across blade of knife, thus removing superficial flesh and fat; or (heavy skins) throws skin over short heavy iron or beam scrapes flesh and fat with a two-handled knife; sometimes dangles (hangs) skin with a wet cloth to facilitate operation of fleshing.

fletcher, machine; fleshing machine operator; dresser; by hand, over exposed portion of power-driven revolving circular knife, to remove superficial flesh and fat; dangles skins as above; sometimes does work of machine shaver (q.v.); of beam man.

fletcher; smooths flesh side and raises nap on grain side of hide with emery wheel machine; of wheel.

framer; stretches sheepskins, intended for pelts or rugs, on wooden frame, by tying joints with cord at intervals round sheep while drying.

fronter; a beam man (q.v.) who scrapes or pushes same from certain kinds of leather, by hand, with a two-handled knife.

fur dresser; general term for workers engaged in process of preparing fur skins, ready for subsequent manufacture into rugs, garments, etc., including beater, cleaner, curer, flesher, roller, puller, stretcher, tumbler (q.v.).

fur dresser; (1) collects loads of fur, i.e., fur skins from each separate rabbit skin; rolls up each load separately, and packs them into separate bags.

grease scourer, *see* cleaner (fellmongery). grinder; hangs sheepskin on a pole or perch; scrapes flesh side of skin with a special knife, i.e., circular knife with wooden handle, to reduce to an even surface; brushes it all over with scourer, i.e., wooden tool coated with coarse emery; or, to remove roughness after scouring; of perch.

hooper; stretches cords to skins, chiefly around edge; ties them to hoops or frames larger than the skins, stretching them to fullest extent; removes skins when stretched.

layer-out, layer man; lays skin of chosen leather on bench; places heavy weights on it, pulls edges to get skin to approximately square shape; in case of tougher skins first stretches them over a stake, i.e., short wooden trestle, in which is fixed vertically a thin steel blade; puts stretched skins in bundles of 30, coiled lips, and ties up with tape, of layer-out (333).

locker (felt hat), *see* gatherer.

machine hand, machine man, machinist; general term for any person operating a machine, e.g., roller, splinter, shaver, striker (q.v.).

measurer; (1) passes skin or hide, by hand, between teeth of measuring machine which automatically records area on indicating dial; (2) grades position of an avometer round edge of skin or hide, notes area automatically recorded on indicating dial; work usually done by classifier or sorter (q.v.).

moist maker, gold beater's; prepares, from skin of animal skin, small square mould for interleaving sheets of gold for beating, of gold beater (238); washes skin in water; scrapes smooth with hand knife; again washes; cuts to shape by hand.

roller, leather; *puller*; on; *striker*; and *striker* blades or skins on stretching boards or frames; hangs boards or frames in heated chamber to dry.

offal roller, offal finisher; a roller (q.v.) who passes offal, i.e., low grade parts of hide, such as belly, shanks, tail, etc., through pulling machine to harden and polish.

opener and puller (rabbit skins); shaves rabbit skin with hand knife; removes fat with another knife; turns skin; skin side stretches them by hand and either lays them, fur upwards, on bench and scrapes off down, i.e., long top hair with sharp knife, or passes skins into pulling machine which removes down.

parer; passes works on surface of skins, in preparation for shaving or splitting; usually done by hand fletcher (q.v.).

pelt mover (sheepskins); places skins in large pit for dressing; withdraws skins with long-handled hook and sorts out into grades for tanning process.

percher; scrapes hides or skins with moon knife (see grinder), or more usually with stretched stake, i.e., long-handled stretching tool; works on heavier leather than grinder.

pincer, pincer-in; strokes leather, while partly dry, with wooden tool to correct any tendency to dry hard; dangles dry parts with wash if leather is not in correct state of humidity.

pinner; passes hides and skins into a pinning machine, having blades of cylinder which flanges and stretches them.

pit shedman; general term for workers in drying sheds; includes dryer, and laborer (339) (q.v.).

preserver, *see* curer (skins).

puller (fellmongery), wool puller; pinches out wool, by hand or machine, from sheepskins, which have been painted with depilatory to loosen wool, and sorts wool into different qualities.

puller (for dressing), fur puller, skin puller; removes old patches of hair with a rubber, seal, nutria, beaver, etc., by pulling against hair, wearing thumb nail and using tucker, i.e., small knife, removes pieces of bone from tails, etc.

puller-over (fur skins); pulls pelt side of certain fur skins over flesh side to raise skin to facilitate process of fleshing.

roller, roller man, roller; of; *roller*; adjusts space between rollers by means of screw; stretches on power-drive of machine; passes leather between rollers for smoothing and strengthening.

roller and squarer (bad leather); passes, by hand, skin between roller and squarer, through rolling machine, and trims or "squares" them with hand shaver.

roller, butt; a roller (q.v.) who rolls back leather, i.e., heavy leather from prime parts of hides; uses heavier type of machine than belly roller (q.v.).

rounder (fellmongery); trims off shanks and ragged pieces from sides of sheep skins, after drying and drying, in preparation for manufacture into rugs.

rounder (leather); *cutting*; turns hides or skins, by hand, with knife, at any point in manufacture; usually also cuts them into various parts, e.g., cheeks, flaps, shoulders, bellies, leaving belt or thickest section, which may be subdivided into sections called belts.

rounder, warehouse; a trimmer (q.v.) trimming finished hides in warehouse.

scourer (leather); *see* cleaner.

scourer (leather); *blower*, *stener*; works leather by hand with slicker, i.e., small steel hand tool, removing bloom developed during vegetable tanning process.

scourer, machine; a sorter (q.v.) who removes bloom by passing leather through scouring machine.

scraper, skin scraper; scrapes leather, or skin side of pelt, web drier, i.e., small hand tool, to remove superficial moisture after scouring.

scrubber; scrubs hides with brush after they have been soaked, preparatory to washing.

skinner; (1) a beam man (q.v.) who scrapes skins by hand with two-handled knife after peeling, or basting, to remove dirt, pigment, hair undergrowth and roots; (2) passes skins under revolving brush of skinner, between rollers of machine, or skinned blades of revolving bladed cylinder; switches on or off power-drive of machine.

shaver; smooths flesh side of leather or skin by shaving by hand or with machine rotary knife.

shaver, bulk; a shaver or beam man (q.v.) who removes major inequalities from flesh side of hides and skins, by hand, with shaving knife; sometimes removes superficial flaws from hides and skins by same process.

shaver, machine; shaves layer from thick skins or from part of skins, e.g., bears' heads and shankskins, holding them against revolving power-driven circular machine knife; sometimes done by machine fletcher (q.v.).

shedman, shed worker; general term for skilled and unskilled workers in drying sheds and warehouses, e.g., dryer, dryer (339) (q.v.).

sheep skin salt maker; soaks pelt side of skins, rubbing in alum and salt water, by hand; places skins in revolving drum containing grease solvent to degrease them; washes them by hand, with brush, soap and soda water; places skins in hydro extractor to drive out excess of water by centrifugal force; hangs them in drying chamber ready for framer (q.v.).

skin dresser; passes skin, alum, or other preservative on flesh side of hides or skins before leaving slaughterhouse for tannery.

skinner; general term to denote a worker skilled in the curing and dressing of fur skins.

skin selector, *see* classifier (fellmongery). skinner; (1) shaver or skinner (leather), by hand, with knife, reducing to an even thickness; (2) passes leather beneath bladed cylinder or under emery wheel of shaving machine.

slubber; passes hides or skins into machine having bladed cylinder to scour them.

slucker; passes hides or skins into a slugging machine, having bladed cylinder, which stretches and flattens them.

sorter; hides sorter; leather sorter, skin sorter, warehouse sorter, *see* classifier.

splitter, splitting machine feeder; passes leather into splitting machine, which splits leather into two portions, i.e., flesh side and hair side; uses roller.

superman of chief splitter (331) (q.v.); sometimes specifically designated, e.g., hide splitter, of; splitter, pelt.

splitter, pelt; passes hides and skins in wet flaked state into splitting machine, using great care; a lubricant brings knife into contact with emery wheel grinder in machine to sharpen blade.

sticker, *see* scourer.

stover, leather stover, *see* dryer.

stove hand (leather), *see* dryer.

stretcher, *see* roller, leather.

stretchor; stretches fur skins, by hand, on table or bench, across a rope or across a frame, to remove wrinkles, extending skins with great care to fullest extent, and to bring up fat in preparation for fleshing, *see* flesher.

striker, *striker-out*; (3) lays wet hide or skin on a slate or marble slab or table, and rubs it with a hand "licker," tool, of stone or steel, to stretch it, drive out excess of moisture, smooth it, and to clean grain; (4) sets rollers of a machine (resembling a mangle) in motion by working a treadle or by attaching to power-drive, and passes skin or hide between revolving rollers, to stretch and smooth them; sometimes specifically designated, e.g., belt striker, belly striker; cf. official striker.

striker, *official*; passes off leather, i.e., made from bellies and shoulders of hides, into power-driven striking-out machine, fitted with blades or cylinders which revolve and smooth out wrinkles developed during tanning.

table band, *table man*; general term for worker on hides and skins on a table, including dumper, *off* (335), *striker* (q.v.).

tan worker; general term to cover skilled and unskilled workers in tan yard.

taper; *off* and *under*; *installing* with skins, by hand, to produce soft, white leather for gloves, etc.

trimmer; *cover*; removes ragged edges of hides or skins, by hand, with strong shears in limpage, tawp, or in wash-basin.

tubber; works in tub and treads small skins, smeared with tano, to soften and "leather" them.

turner; *dryer*; turns over rabbit and other skins that are drying in open air, to hasten their drying.

unbinder (*flint*); loosens certain kinds of skins, e.g., seal, beaver, astrak, with a wet cloth; beats before fire to open pores of skin; places covered put on a support and pushes the hair out, causing loose source hairs to fall out; then pushes small knife over fur to level and smooth surface.

unbinder (*lantern*); *deslayer*; (1) a beam man (q.v.) who spreads hides or skins on wooden beams; sweeps hair, by hand, with two-handed knife; (2) passes hair from skins from line belt, between unbinding machine, removing hairs.

washer (*fillmongery*), *see* cleaner (*fillmongery*).

weather-in, *see* dumper.

wheeler, *emery wheeler* (*polier*); finishes flesh surfaces of dressed skins on emery-covered wheel, of duffel; may also remove thin layer from grain side, e.g., butter; cf. whitener and whinner (bols and skins) (334).

wheeler, *colour*; *an* emery wheeler (q.v.) who makes up an emery leather with emery wheel, generally wheeling behind and after colouring.

wheeler, *wet*; grinds hides or skins, while wet, on emery wheel or other high speed wheel to remove unevenness from flesh side.

wool dryer; dries wool, after washing, in heat of warm air, or by laying out on floor of heated kiln.

wool washer; washes wool by hand in series of troughs containing soap, alkali, and warm soft water, or in washing machine.

330.—OTHER WORKERS.

bark grinder, *barkder*, *bark mill feeder*; *mill feeder*, *grinder*; shovels bark into hopper head of power-driven machine, shredding, splitting, and grinding it in preparation for use in tanning; sometimes also controls power drive of machine.

boarding machine operator; passes harness leather, after greasing, into boarding machine, i.e., fitted with rollers or blades, which roll it softer down it flows, to soften leather.

cutter, *see* labourer, *drum* (*for dressing*).

dipper; combes out fur after leathering.

dipper; *dyer's* labourer; finishes and carries skins or leather; dips or suspends them in dye liquid; removes them as directed; loads and unloads drum tumblers; assists *dyer* (335) (q.v.) generally and usually works under his direction.

drum and cage hand, *see* labourer, *drum* (*for dressing*).

drummer, *see* labourer, *drum*.

drying shed worker; assists *dryer* (336) (q.v.).

dye tray boy; assists *dyer* (335) (q.v.); draws skins through dye tray.

grinder, *see* bark grinder.

hair washer; washes dirt, blood, etc., from hair and wool skins as received from slaughterhouse by agitating them in large tubs of water called jakes, in which he stands.

horseman; hangs chrome hides on horse or frame to drain after tanning.

hydro attendant; loads with hides, skins, hair, etc., hydro extractor which extracts grease, liquor or water from them by centrifugal action; switches on or off power-driven machine; supplies hydro when process is complete.

labourer, *currier's*; assists *currier* (334) (q.v.) by lifting skins and hides, and preparing belting.

labourer, *drum* (*for dressing*); *drum worker*; *oager*, *drum* and *cage hand*, *drummer*; loads and unloads drums and cages used in connection with cleaning and leathering of fur skins; finishes and carries fur skins; works under direction of foreman (331) (q.v.).

labourer, *drum* (*leather*); *drummer*, *tumbler*, *tumbler man*; fills drum tumblers with hides and skins, and empties them when process is completed; finishes and carries loads of hides or skins; works under direction of foreman (331) (q.v.).

labourer, *dyer's*; *see* dipper.

labourer, *lime yard*; *pit labourer*, *yard man*; assists in handling hides and skins in process of retanning hides; cf. lime jobber and pitman (335).

labourer, *pit*; (1) *see* labourer, *lime yard*; (2) *see* labourer, *tan yard*.

labourer, *skin yard*; helps generally in foreman's yard, loading, carrying, washing skins in water tubs, putting dipping liquor substance on skin, etc.; cf. lime jobber (334).

labourer, *tawp*; *tanner's* labourer; *put labourer*, *tan worker*; helps generally in leather tanning process in tan yard; lifting hides or racks of skins, stocking and dressing.

leather, *leath* center, *leathman*, *leathman*, *leathman*, *see* liquor man; cf. leathman (335).

liquor man, *liquor runner*; *leath center*, *leathman*, *leathman*, *leathman*; puts back, series of vats where they are infused with water to make tanning liquors, under direction of liquor blender (335) (q.v.); turns on valves, opens, etc., to admit water to vats and to set going automatic pumps which draw liquor from vat to vat for liquor blending; empties spent bark from vats with shovel; cf. liquor blender (335).

loader; loads finished or semi-finished goods into lorries or railway wagons.

mill hand (*fur skin*); one of a gang who, under supervision of foreman millhand, (331) (q.v.) greases fur skins, place them in tanning machines for tanning purposes, put skins in drum tumblers for cleaning with mudst, and remove them when clean.

mill tender, *see* bark grinder.

opener (*fillmongery*); makes holes of main skin, spots down set and stretches them in readiness for carrying.

paddingman; (*fillmongery*) puts sheepskins in padding machine, i.e. large wooden cylinders fitted with revolving paddles; turns valve, admitting water to machine; switches on power-drive of machine; carries skins after spotted; period; (2) assists in filling pots with hides and skins; operates levers to start or stop mechanical paddles for agitating liquor in lime, bark or tanning pits, or in washing or deliming vats; changes gear of paddles to increase or reduce number of working paddles; removes hides or skins, when process is complete, with long-handled hook or pole.

pumper, *see* liquor man.

rabbit down worker; (1) general term for worker preparing rabbit fur for felt making, including open, *carrier* (334), *gatherer* (335); (2) works on the shaven fur or down to soften it before despatch to felt hat maker.

stamper; marks leather with stamp, either by hand or machine.

strapping boy; assists *seller-on* (336) (q.v.), *finishes* leather on to frames for drying.

tan worker, *see* labourer, *tawp*; cf. tan worker (330).

tumbler, *tumbler man*, *see* labourer, *drum* (*leather*).

vacuum band; places hides and skins in vats of vacuum leaching machine under direction of tawp/foreman (331) (q.v.); removes them when process is complete.

washer (*leather*); washes leather by hand, after tanning, to remove extraneous matter, washer, bend; a washer (q.v.) who is engaged in washing head leather, i.e., crute section of hide which is prime quality.

yardman, *see* labourer, *lime yard*.

Sub-Order 2.—Makers of Leather and Leather Substitute Goods (not Boots and Shoes).

342.—CUTTERS-OUT.

clicker, *see* cutter; sometimes specifically designated, e.g., *accoutrement clicker*, *leath clicker*.

clicker, *accoutrement*; a round knife outer, or straight knife outer (q.v.) who cuts leather by hand, using either round or straight knife, for the purpose of making accoutrements.

cutter, *outer*, *outer-out*, *outer-out*; *clicker*; sorts leather, and examines each piece for grain, noting weak sections, and skins pieces for various uses; cuts leather into pieces for making bags, belting, harness, etc., usually by hand, with knife, using also templates, patterns and measuring gauge.

cutter, *outer-out*; a round knife outer, or straight knife outer (q.v.) who cuts leather by hand, using either round or straight knife, for the purpose of making accoutrements.

cutter, *outer-out*, *outer-out*; *clicker*; sorts leather, and examines each piece for grain, noting weak sections, and skins pieces for various uses; cuts leather into pieces for making bags, belting, harness, etc., usually by hand, with knife, using also templates, patterns and measuring gauge.

cutter, *outer-out*; a round knife outer, or straight knife outer (q.v.) who cuts leather by hand, using either round or straight knife, for the purpose of making accoutrements.

cutter, *outer-out*, *outer-out*; *clicker*; sorts leather, and examines each piece for grain, noting weak sections, and skins pieces for various uses; cuts leather into pieces for making bags, belting, harness, etc., usually by hand, with knife, using also templates, patterns and measuring gauge.

cutter, *outer-out*, *outer-out*; *clicker*; sorts leather, and examines each piece for grain, noting weak sections, and skins pieces for various uses; cuts leather into pieces for making bags, belting, harness, etc., usually by hand, with knife, using also templates, patterns and measuring gauge.

cutter, *outer-out*, *outer-out*; *clicker*; sorts leather, and examines each piece for grain, noting weak sections, and skins pieces for various uses; cuts leather into pieces for making bags, belting, harness, etc., usually by hand, with knife, using also templates, patterns and measuring gauge.

cutter, *outer-out*, *outer-out*; *clicker*; sorts leather, and examines each piece for grain, noting weak sections, and skins pieces for various uses; cuts leather into pieces for making bags, belting, harness, etc., usually by hand, with knife, using also templates, patterns and measuring gauge.

cutter, *outer-out*, *outer-out*; *clicker*; sorts leather, and examines each piece for grain, noting weak sections, and skins pieces for various uses; cuts leather into pieces for making bags, belting, harness, etc., usually by hand, with knife, using also templates, patterns and measuring gauge.

cutter, *outer-out*, *outer-out*; *clicker*; sorts leather, and examines each piece for grain, noting weak sections, and skins pieces for various uses; cuts leather into pieces for making bags, belting, harness, etc., usually by hand, with knife, using also templates, patterns and measuring gauge.

cutter, *outer-out*, *outer-out*; *clicker*; sorts leather, and examines each piece for grain, noting weak sections, and skins pieces for various uses; cuts leather into pieces for making bags, belting, harness, etc., usually by hand, with knife, using also templates, patterns and measuring gauge.

cutter, *outer-out*, *outer-out*; *clicker*; sorts leather, and examines each piece for grain, noting weak sections, and skins pieces for various uses; cuts leather into pieces for making bags, belting, harness, etc., usually by hand, with knife, using also templates, patterns and measuring gauge.

cutter, *outer-out*, *outer-out*; *clicker*; sorts leather, and examines each piece for grain, noting weak sections, and skins pieces for various uses; cuts leather into pieces for making bags, belting, harness, etc., usually by hand, with knife, using also templates, patterns and measuring gauge.

cutter, *outer-out*, *outer-out*; *clicker*; sorts leather, and examines each piece for grain, noting weak sections, and skins pieces for various uses; cuts leather into pieces for making bags, belting, harness, etc., usually by hand, with knife, using also templates, patterns and measuring gauge.

cutter, *outer-out*, *outer-out*; *clicker*; sorts leather, and examines each piece for grain, noting weak sections, and skins pieces for various uses; cuts leather into pieces for making bags, belting, harness, etc., usually by hand, with knife, using also templates, patterns and measuring gauge.

cutter, *outer-out*, *outer-out*; *clicker*; sorts leather, and examines each piece for grain, noting weak sections, and skins pieces for various uses; cuts leather into pieces for making bags, belting, harness, etc., usually by hand, with knife, using also templates, patterns and measuring gauge.

cutter, *outer-out*, *outer-out*; *clicker*; sorts leather, and examines each piece for grain, noting weak sections, and skins pieces for various uses; cuts leather into pieces for making bags, belting, harness, etc., usually by hand, with knife, using also templates, patterns and measuring gauge.

cutter, *outer-out*, *outer-out*; *clicker*; sorts leather, and examines each piece for grain, noting weak sections, and skins pieces for various uses; cuts leather into pieces for making bags, belting, harness, etc., usually by hand, with knife, using also templates, patterns and measuring gauge.

cutter, *outer-out*, *outer-out*; *clicker*; sorts leather, and examines each piece for grain, noting weak sections, and skins pieces for various uses; cuts leather into pieces for making bags, belting, harness, etc., usually by hand, with knife, using also templates, patterns and measuring gauge.

cutter, *outer-out*, *outer-out*; *clicker*; sorts leather, and examines each piece for grain, noting weak sections, and skins pieces for various uses; cuts leather into pieces for making bags, belting, harness, etc., usually by hand, with knife, using also templates, patterns and measuring gauge.

cutter, *outer-out*, *outer-out*; *clicker*; sorts leather, and examines each piece for grain, noting weak sections, and skins pieces for various uses; cuts leather into pieces for making bags, belting, harness, etc., usually by hand, with knife, using also templates, patterns and measuring gauge.

cutter, *outer-out*, *outer-out*; *clicker*; sorts leather, and examines each piece for grain, noting weak sections, and skins pieces for various uses; cuts leather into pieces for making bags, belting, harness, etc., usually by hand, with knife, using also templates, patterns and measuring gauge.

cutter, *outer-out*, *outer-out*; *clicker*; sorts leather, and examines each piece for grain, noting weak sections, and skins pieces for various uses; cuts leather into pieces for making bags, belting, harness, etc., usually by hand, with knife, using also templates, patterns and measuring gauge.

cutter, *outer-out*, *outer-out*; *clicker*; sorts leather, and examines each piece for grain, noting weak sections, and skins pieces for various uses; cuts leather into pieces for making bags, belting, harness, etc., usually by hand, with knife, using also templates, patterns and measuring gauge.

cutter, *outer-out*, *outer-out*; *clicker*; sorts leather, and examines each piece for grain, noting weak sections, and skins pieces for various uses; cuts leather into pieces for making bags, belting, harness, etc., usually by hand, with knife, using also templates, patterns and measuring gauge.

cutter, *outer-out*, *outer-out*; *clicker*; sorts leather, and examines each piece for grain, noting weak sections, and skins pieces for various uses; cuts leather into pieces for making bags, belting, harness, etc., usually by hand, with knife, using also templates, patterns and measuring gauge.

cutter, *outer-out*, *outer-out*; *clicker*; sorts leather, and examines each piece for grain, noting weak sections, and skins pieces for various uses; cuts leather into pieces for making bags, belting, harness, etc., usually by hand, with knife, using also templates, patterns and measuring gauge.

cutter, *outer-out*, *outer-out*; *clicker*; sorts leather, and examines each piece for grain, noting weak sections, and skins pieces for various uses; cuts leather into pieces for making bags, belting, harness, etc., usually by hand, with knife, using also templates, patterns and measuring gauge.

cornerer; (1) applies cement to joints of leather belting, by hand, with brush; folds belts by hand; lays belts in a box screw press, so that twenty or thirty connected joints lie on top of one another under press, then screws press down, by hand; (2) applies cement as above; lays belts in hydraulic press, moving lever, outside press to come down on joints of belting.

finisher; polishes edges of belts or belt leathers by hand, with a spokebrush, or cuts belting into polishing machines; applies size to surface of leather with a brush and "glazes," i.e., finishes with glass hand tool on revolving table.

fitter, fitter-up; makes up; trims and squares; (1) and bevils off squared ends with gutliner knife; passes end of strip into power-driven sewing machine to sew or braid them; squares them again with knife; finishes with spokebrush and passes strip to order (q.v.); sometimes cards or roughens end himself.

jobber, see repairer.

leather band maker; mill band maker; general term for operative who makes leather belting throughout, as distinguished from one who performs only one operation; splices and joins, stitches and machines, prepared leather bands as received from leather band order (342) (q.v.); sometimes also cuts them.

maker-up; see fitter.

mill band maker, see leather band maker.

preparer; *sawtooth*; prepares or sorts strips of leather for splicing machines; often does by splicer (q.v.).

repairer; jobber; repairs or remakes parts of broken or worn belting; of belt-maker, riveter (leather belting); punches holes in leather strip, by hand, with punch and mallet; inserts copper rivets and harness ends etc.

rougher, see carder.

sawtooth, see preparer.

sewer; *stitcher*; (1) makes holes in belting with hand tool, inserts lace in holes, by hand or machine; (2) when leather lace is used, trims edge of lace, by paring with a knife; trims ends after machine work with belt surface, by hand, with a knife.

sewer, laced; trims laces and stitches laced belt joints, by hand.

sewer, wire; keeps hand on wheel of power-driven wire-sewing machine, thus controlling pressure of foot of machine to sink various leather belting which passes automatically through wire-stitching machine.

splicer; one gauge of machines, by hand, to required length of splice; draws strip of leather firmly in position by using a saw; turns wheel or pulls lever of machine, thereby bringing strip of leather in contact with knife of machine, which cuts a tapered sort of splice; sometimes also does preparatory sorting, see preparer; sometimes also does fitting, see fitter.

squarer, squarer-up; straightener; places leather under frame, with steel straight edge, cuts it by hand, with half round knife, or passes leather into cutting machine, hand-manipulated but having cutter attachments.

stitcher, see sewer.

straightener, see squarer.

strap man, strap mender, strap piecer (machine belt), *as for* belt maker, working on small straps for machinery.

strapper (trawlers); removes hanging straps of trawlers, which have been repaired as defective by our examiner (314), and replaces them with new ones; rivets feet with small riveting machine hammer.

344.—SADDLERS AND HARNESS MAKERS.

bride machinist; a *brille* stitcher (q.v.) stitching bridles by machine.

brille maker; stitches together parts of leathers and reins, by hand, using awl for boring holes and waxed thread for stitching; *as for* brille order (342).

brille coverer; *covered brille* maker; covers brilles with damp leather, stitching by hand or machine.

carriage strap maker; cuts and stitches carriage straps; usually does by harness stitcher (q.v.).

collar machinist, horse collar machinist; stitches together parts of collar, by machine.

collar maker, horse collar maker; cuts out and shapes roughly cut leather and other materials, with knife and template; stuffs with straw, hair, etc. stitches up—by hand, principally—and finishes order by polishing with composition and cloth.

covered brille maker, *see* brille coverer.

curb maker; makes bridle curb of leather, by cutting and stitching or plaiting; learns now nearly obsolete; work usually done by brille maker (q.v.) or harness maker (q.v.).

Devershire slipper maker; a brown saddler (q.v.) who makes the fitting known as a slipper for one type of lady's side saddle; cuts out leather and sews pieces together and finishes, i.e., trims edges, and polishes, all by hand.

dumb jockey maker; a saddler (q.v.) who makes, i.e., assembles and fits together, "dumb jockeys," dummies made of leather, wood and iron and placed on back of horse during training.

fellock boot maker, *see* horse boot maker.

fore-wale fitter; a collar maker (q.v.) who makes wale of horse collar.

front maker, bridle front maker; cuts out leather piece on front of harness or bridle by hand with knife; examines fancy stitching and embossing by hand, with beaded embossing tool; if working on painted leather may be called painted front maker; usually made by brille order (342) (q.v.).

girth maker; general term for makers of girths; sometimes specially designated, *e.g.*, leather girth maker and web girth maker (q.v.).

halter eyeletter, *see* headstall eyeletter.

hame coverer; covers hame of horse collar with leather; occupation practically extinct; where necessary, work is done by harness maker (q.v.).

harness furniture coverer; a harness maker (q.v.) who cuts out and stitches covers for harness furniture (bookies, etc.).

harness maker; one leather, with knife, into pieces for making harness, except for the brille order; picks holes with a punch for stitches; sews holes with awl in preparation for taking; trims and polishes edges with spokebrush, glass paper, and glass; dyes edges black or brown with composition; lines or crapes parts of harness with beaded cramping iron; punches holes, where required, with punch and hammer or mallet; sometimes also stitches certain parts by hand; usually passes on to harness stitcher or to machinist (346) (q.v.) for sewing by machine.

harness ornament maker (leather); inserts ornament tie in power of head press; lays leather on bed of press and moves lever causing die to stamp out pieces of leather to required shape; assembles pieces and stitches them together by hand to form rosettes and other leather ornaments for decorating harness.

harness preparer; when work of harness making is sectionalized, does by hand, some or all of operations of harness maker (q.v.), except cutting and hand stitching.

headstall eyeletter; halter eyeletter; cuts or punches holes in headstalls or halters and inserts eyelets therein.

horse boot maker; fellock boot maker; inserts dies in power-driven or treadle press; lays material on bed of press and moves lever causing die to stamp out leather and felt parts of horse boots (fellock boots) or of knee caps; cuts pieces together, by hand, and passes to machinist (346) (q.v.) for stitching; sometimes also polishes and dyes edges and polishes leather parts with composition.

knee-cap maker; a horse boot maker (q.v.) engaged in making knee caps.

leash maker (leather); cuts long strips of leather; stitches or plaits them to make dogs' leashes or leads.

leather girth maker; a brille order (342) (q.v.) making leather girths.

pad blinder; receives pads, cut out and tacked up, from pad maker (q.v.); binds edges with thin leather strips or webbing usually by hand but sometimes by machine; sews pads to saddle, by hand or machine.

pad maker; a leather worker in saddlery trade who makes saddle pads of leather and cloth by hand and stuffs with hair, etc., sews by hand or machine; also does work of pad blinder (q.v.) where work is not sectionalized.

painted front maker; a front maker (q.v.) who makes bridles of painted leather; may paint leather.

pannel maker; cuts out and shapes pieces of leather; stitches them to black them with composition; brushes on polish and applies dye to edges; all done by hand.

rein maker; cuts out leather with knife, by hand, using measuring gauge; smoothes and polishes edges with glass paper and glass; applies black composition or brown dye to edges with a brush and pad; does sewing, where required, by hand; lines or crapes reins with beaded cramping iron.

rosette maker, *as for* harness ornament maker.

saddle maker; *saddler*, *saddle worker*; makes saddles throughout; stretches webbing and covers across saddle tree, warps and covers with leather, which he cuts to proper shapes, *see* brown saddle.

saddle maker, riding, *see* saddle brown, saddler; (1) *as* saddle maker; (2) general term for any worker employed in saddlery and harness trade; usually a man having knowledge of several occupations in one or more of which he is a specialist.

saddler, black; *harrows* saddler; cuts out leather by hand on cutting band with knife, for driving harness, using templates or patterns; applies black composition with brush; polishes by hand; applies dye to edges with brush and pad; also sews and stitches by hand or passes to machinist (346) (q.v.).

saddler, brown; *riding saddle* maker; makes riding saddles; cuts out leather, by hand, and builds up on saddle tree, shaping, setting, padding and stitching, all by hand; *cf.* saddle black.

saddler, rig; *black* saddler (q.v.) who makes small driving saddles for gigs, traps, etc.

saddler, harness, *see* saddler, black, saddlery and harness repairer; a *saddler* (q.v.) who does repairs to saddlery and harness by hand or by machine.

saddle repairer; *as* saddle maker, by hand or machine, passes finishing saddle.

saddle worker, *see* saddle maker, splicer; sorts or tapes two ends of rein, trace, etc., with a knife; pierces holes with an awl; sews ends together with waxed thread to make a splice.

spur leather; *as* saddle, stitches and makes leathers for spur attachments by hand; usually done by brille order (342) (q.v.).

stitcher, bridle; stitches bridles and reins, usually by hand but sometimes, for cheaper work, by machine.

stitcher, collar; stitches together part of collar, by hand.

stitcher, harness; stitches harness, under direction of harness maker (q.v.).

stitcher, saddle; stitches saddle by hand, after has been made up by brown saddler (q.v.); usually in training to become brown saddler.

web girth maker; stitches leather parts or attachments, by hand, to girths made of textile material; also cuts leather into pieces, by hand, for making parts or attachments.

345.—MAKERS OF BAGS AND TRUNKS.

attached case maker; a case maker (q.v.) who makes attached cases throughout.

bag liner; fastens or glues machined linings into leather bags, by hand, or glues lining material to cardboard frames, places them on bags or attaches linings with strap fasteners, which are sewn on by hand.

bag machinist; sews pieces of leather together with sewing machine to make bags; also machines linings for bag liner (q.v.) to fit into bags.

bag maker, travelling bag maker; general terms for any worker able to stitch and finish throughout any kind of leather bag.

bag stitcher; (1) stitches Gladstone bags round top by hand after frame has been prepared by bag framer (q.v.); (2) stitches bags of certain types by power-driven machinery.

bag worker; general term for worker engaged in any process in making bags (other than ladies' hand bags, which are made by fancy leather workers).

case maker, brush; a case maker (q.v.) who makes brush cases of leather; work generally similar to applied case maker (q.v.), but less accuracy is required and cases are not blocked.

case maker, hat; a case maker (q.v.) specializing in leather cases for hats.

case maker, leather case maker; makes leather cases throughout, almost entirely by hand, combining the duties of case maker (812) and bag framer (q.v.), and sometimes other workers also, among whom work is now more usually sectionalized; cuts out leather by hand with a knife, using templates or patterns; glues pieces of leather to one to stiffening boards; pricks holes in leather, either by hand, with a steel punch and a mallet, or by guiding leather over a plate or bed under a power-driven pricking wheel; then stitches, either by hand or on a power-driven sewing machine; sometimes also makes and/or finishes, as described under handle maker, bag liner, and finisher (q.v.).

cleaver, see stitcher.

cleaver, case; (1) guides case, by hand, into power-driven sewing machine, which sews corners, ends and "lengths" into cases; (2) for high-class fitted bags or cases, scribbles line or guide with hand scriber and stitches above this line by hand.

cricket bag maker; a bag maker (q.v.) making leather cricket bags; turns bag after moulding, stiffens it and fits frame ready for lining.

dressing case maker; a case maker (q.v.) making leather dressing cases, usually fitted for moustache sets and hair brushes.

draw out case binder; adjusts screws on binding machine, so that it will take required thickness of draw sheet; passes sheet against gauge into machine, where it is bent at right angles; starts and stops machine by pulley lever, switch, etc.

finisher; (1) puts trimmings in portmanteaux, satchels, cases, and similar articles; cf. bag liner; marks positions for locks, handles, etc., with a hand-manipulated and hand-adjusted machine called a "positioner," and fixes tools, handles, etc., in positions marked; (2) ornaments case in various ways, e.g., puts embossed work on cases, by means of a hand-manipulated and hand-adjusted machine called a "combining plate," or paints surface of leather with aluminum composition, lays on gold leaf (in form of lines, etc.), and trims it in with a heated crossing iron, or trims in plain lines in some way with a heated crossing iron; (3) letter cases, edges of cases, bags, etc., either by hand with a trimming knife, or by holding edge against revolving glassplate-covered roller of a power-driven grinding machine; sometimes also dyes edges, by applying staining composition by hand with a pad; cf. framer (345), framer, bag framer, cover set frame as top of bag with handle, by hand, using pliers; if a "stitched" bag, fits and partly stitches leather to frame ready for bag stuffer (q.v.); in making certain types of ladies' hand bags, sometimes cuts leather completely to bag with needle and thread through hole in metal frame; if a "riveted" bag, prepares for bag riveter (q.v.) or once usually himself rivets leather to frame by hand or with riveting machine.

handle maker; (1) makes "rider," i.e., a fitting of sheet and paper; covers it with handle leather, which has been roughly cut by clicker; stitches leather with machine or by hand; shapes and seals handles by hand; (2) makes solid leather handles; shapes stamped-out parts; glass pieces together ends and trims; covers with this leather, stitches and finishes.

kit bag maker; a bag maker (q.v.) who specializes in making kit bags.

ladies' bag maker, as for dressing case maker.

leather trunk maker; portmanteau maker, travelling bag maker, trunk maker; makes leather trunk throughout, (1) entirely or mainly by hand; cf. case maker, except that leather is riveted to frame, either by hammering in by hand hand-riveted rivets, or by guiding work by hand into machine which automatically

inserts rivets and stamps them in position; (2) by use of machinery where manufacture is sectionalized in two or more processes, i.e., cutting out leather, stiffening and building it, riveting, stitching, lining and finishing.

marking; (1) leather bags and trunks; receives leather from preparer (345) (q.v.), who has marked lines to which machinist is to work; guides work by hand on plate or bed under needle of power-driven sewing machine, ready for framer (q.v.).

muslin case stitcher; a stitcher (q.v.) or assisted maker (q.v.) who sews leather muslin cases; usually sews other fancy leather goods also.

optional case maker; a case maker (q.v.) who receives leather parts, rivets and other lining, cut to size and shape required; sews leather parts together and attaches straps and loops, using an awl to prick holes for needles and sewing with needle and thread in each hand; shapes and stiffens case by blocking, i.e., spreads glue on a thin strip of steam softened wood and binds strips round inside case; inserts a block of wood or paper machinist carved to required shape of case; gives tension by inserting wedges between block and strips; blocks lid in same way; glues in velvet or other lining; crosses leather parts (body, straps, and loops) by pressing a heated cross-rod along required line; rolls edge of case smooth with hand tool; if required glues in velvet covered wooden and other fittings.

portmanteau maker, see leather trunk maker.

riveter, bag riveter, riveted bag framer; rivets leather to frame of bags, trunks, etc., by hand or with riveting machine; cf. bag framer.

roller maker; binds a roll of paper, by hand, tightly with string, sometimes adding glue for strengthening purposes; see mangle roller, i.e., internal filling of leather handles for bags.

stitcher maker; a fancy leather worker (345) (q.v.) stitching and finishing satchels; usually also makes other fancy leather goods.

small case maker; a leather case maker (q.v.) who makes small cases, such as cases for binoculars, flasks, periscopes, telescopes, etc.

stitcher; *cleaver*; sews bags, cases or other leather goods, by hand.

strapper; attaches straps to bags, trunks, etc., by hand or machine stitching or by riveting.

suit case maker, as for attached case maker.

travelling box maker, see leather trunk maker.

trunk maker (not wood or metal), see leather trunk maker.

trunk packer (fitted up); fits pockets and linings to dress suit cases or fits trunks in trunks.

violin case maker, as for attached case maker.

348.—OTHER SKILLED WORKERS.

army accoutrement maker; general term for maker of leather accoutrements, including leather requirements for horses and guns, as well as for men; sometimes specifically designated, e.g., scabbard maker, hand-doller maker; an army accoutrement maker (q.v.) specializing in cutting and stitching leather for hand-dollers; work usually sectionalized, in which case men cuts and women stitches.

boot, lace maker (leather); cuts leather laces by hand with a knife or by machine plough and gauge, or by holding knife stationary on circular piece of leather with one hand, turning leather round with the other, cutting a spiral strip.

boxing glove maker; cuts leather and/or canvas roughly to shape with a knife by hand; pulls with pincers to make supple and even; then cuts to exact shape with knife and templates; passes to sewer (q.v.) who stuffs by hand and returns to sewer for closing.

boxing glove sewer, boxing glove stitcher; stitches together, by hand or machine, pieces of leather or canvas, cut out by boxing glove maker (q.v.); returns glove to maker for stuffing; afterwards closes it by final sewing.

cleaver, see sewer.

compressed leather maker; leather sheet maker; mixes leather shavings, by hand, with glue; places mixture in heated mould in hydraulic press; moves lever, causing press to compress mixture, which becomes after specified period of pressure, sheets of compressed leather; removes sheets from press.

diaphragm maker (gas meters); leather diaphragm maker; *gas meter*; *diaphragm maker*; *leather type*; selects die outline of required size and patterns; inserts leather in press under cutter, moves handle, causing cutter to stamp out leather diaphragms for gas meters, etc.; changes dies as required.

dog collar maker; a strap maker (q.v.) who specializes in making leather dog collars.

fancy leather goods maker, fancy leather goods worker, fancy leather worker; general term for any worker engaged in any process of fancy leather goods making, e.g., cutting, pressing, stitching, etc.; includes makers of book, hand-bags, cigar cases, etc.; sometimes specifically designated, e.g., ladies' hand-bag maker, leather pouch maker, leather purse maker.

finisher; adds various small fittings to bags and other leather goods; gives final polish with solution of bees' wax and turpentine; cf. finisher (345) and polisher (349).

finisher (whip); assembles whip fittings, mounts, etc.; affixes thong with waxed thread; performs other necessary operations, varying with type of whip, varnishes.

football examiner; examines footballs before and after they have been inflated, to see that all sections are of good shape and stitched together; rejects defective covers.

football finisher; fashions seams with a hammer, after they have been machine stitched by football stitcher or sewer (q.v.); cuts holes for laces with hand punch and inserts handles.

football maker; roughs out leather, by hand, with knife, or power clicking press; stretches with pincers and cuts to required shape by pattern; or gets together sections in readiness for football stitcher or sewer (q.v.).

football sewer, football stitcher; stitches together, by hand, sections of football case on inside with waxed hemp; stitches round opening by hand or machine. **football worker**; sorts cases or outside covers of footballs, after manufacture, according to size and quality.

gutter maker, gutter maker and/or cloth by hand with knife, or by placing leather on bed plate of power-driven cutting machine, moving lever and causing cutter to cut leather to required shape; stitches parts of gutter together, by hand or power-driven sewing machine; sews on buttons and works button holes by hand.

gas meter bellows maker, see diaphragm maker.

hoidnall maker; cuts leather and canvas by hand with knife, using patterns; directs machinists in sewing; finishes and adds fittings.

hose maker, leather hose maker; makes leather hoses, bending elbed leather sheets into tubular form, riveting overlapping edges; joins tubular sections by riveting.

lace and/or strap maker; cuts narrow strips from raw or cured hides, by hand with knife, using small gauge, to make boot laces, ropes, etc.; looms for engine belt, cut from tough hides.

leather belt maker; cuts belts by hand; prepares them by pricking with hand, pricking tool and mallet, or by passing into pricking machine; inserts eyelets, by hand or by passing belt into eyeletting machine; ornaments with lines, using hand-dressing iron; stitches by hand or machine; finishes by hand dyeing and polishing; work often done by saddle or bridle maker (346) (q.v.).

leather bridle maker; (1) cuts out by hand or by cutting machine; pricks holes and inserts eyelets, by hand or machine; and stitches by hand or machine; (2) in the case of webbing braces, attaches leather parts.

leather bucket maker; makes leather buckets by cutting out leather by hand, using knife, compass and cutting board; stitches and rivets by hand or by stitching and riveting machines.

leather buffer maker, *see* picker maker.

leather leggings maker; (1) makes leather leggings throughout, i.e., cuts out, or rounds and sets leather by hand, using hand knife and patterns; blocks leather by wetting and shaping by hand on a wooden block; stitches by hand or machine; crosses or indicates with heated cramping iron; attaches fluting by hand; polishes edges with bone hand tool and pad; (2) where work is sectionalized, performs one or more of above operations.

leather machinist; general term for expert in using hand or mechanically-driven machines for stitching one piece of leather to another.

leather pouch liner; stitches by hand or machine into pouches, lining of sheet rubber, silk, etc.

leather sheet maker, *see* compressed leather maker.

leather typer, *see* diaphragm maker.

leather worker (artificial limbs); cuts leather and webbing with hand knife, and fits it on plaster or other mould; blocks leather, wetting and shaping it by hand over plaster or metal mould; stitches leather and webbing by hand or machine; indicates lines as straps with heated cramping iron; finishes work with hand tools.

leather worker (leather goods); general term for any worker, usually machinist, engaged in the making of purses, bags and other leather goods.

leather worker, orthopaedic; cuts out, stitches and fashions leather parts of leg irons, leg supports and other similar appliances.

machinist, sewing machinist; uses treadle or power machine to stitch leather goods and linings, usually under direction of cutter or maker.

photo frame maker; a fancy leather worker (q.v.) engaged in covering photograph frames with leather, by hand.

picker maker, picker and buffer maker; leather buffer maker; cuts by hand with a knife leather or raw hide, blocks or rounds it to shape in hand manipulated hydraulic press, to make picker (part of loom which throws shuttle across warp through shed); sometimes specifically designated, e.g., buffalo picker maker.

plaster and finisher (whip), *see* thong maker.

preparer; (1) selects leather according to grain and colour; indicates lines, along which stitching is to be done, by scribbling with hand scriber or pricking holes by hand punch or machine pricker; skives edges of leather, to fit well together, holding them against power-driven rotary knife of skiving machine; (2) applies stitching composition to edges by hand with pad; tanners, i.e., smooths edges by hand, with retreating knife or by holding against revolving power-driven emery or grinding wheel; sometimes also polishes with wax composition, by hand.

pricker, pricer or perforator, leather goods to mark out lines, along which stitching has to be done, either by hand with pricking punch or by guiding leather over bed of power-driven machine fitted with revolving pricking tool; sometimes also does other work of preparer (q.v.).

repairer; repairs any class of leather goods.

riveter; operates riveting machine to fasten army accoutrements, belts, etc.

roller coverer, leather roller coverer, roller coverer and cleaner; cuts out leather and cloth by hand with knife, for covering rollers of textile machine; punches holes in leather at ends with awl; grades leather or cloth over rollers; threads laces through holes, draws taut and fastens or ties them.

sailor's palm maker; cuts out leather, by hand knife, portion of sailor's palm used by sail-makers to protect palm while sewing and save on backle and metal palm piece by machine.

seaboard maker; an army accoutrements maker (q.v.) specialising in cutting leather and stitching covers for seaboards.

sewer, hand sewer; sewer, stitcher, sealer; sews or stitches leather or leather goods, light or heavy, by hand.

stitcher, *see* sewer.

strap maker; cuts out leather to gauge by hand with knife or by machine, preparer, i.e., cuts ends by hand to shape for buckle and loop; sews them by hand; punches holes in strap with hammer and punch or in punching machine; vests or lines edges with hot cramping iron; polishes edges with glass paper and polishing composition.

strap maker; a worker engaged in one or more of the following operations found in making of razor straps; e.g., cutting-out leather, by hand, with knife or cutting machine; preparing, i.e., cutting ready to shape, cutting and waxing backs stitching backs to handles by hand or machine.

thong maker, whip thong maker; preparer and sewer (whip); cuts leather by hand, photo over whalebone, to make thong of whip; rolls thong by hand in chalk for whitening.

tool roll maker; cuts, prepares and stitches together leather to form a tool roll or case for holding tools, such as his, etc.

welter, *see* sewer.

whip handle coverer; (1) cuts leather to size by hand, with knife; damps or wets leather to soften it; fits it to handle; sews same by hand or machine; (2) glazes leather strands on to handle to form cover.

whip handle stitcher; (cheaper goods) cuts strips of leather by hand with knife for handle and makes up sewing machine; slips leather strips over stock and glazes into position.

349.—OTHER WORKERS.

glazer and dresser (leather laces); hangs a number of laces on a peg, and rubs in dressing of tallow and other greases by hand.

harness polisher for saddler; applies composition to harness with brush or pad, brushes until polish appears.

moppler; a polisher (q.v.) who uses a revolving mop or brush, on a lathe, to polish leather goods.

polisher, leather goods; polishes made-up leather goods by rubbing with a solution of bees' wax in turpentine; cf. finisher (342) and (343).

preparer, different names, etc., in leather goods by using hammer or hand press.

roller (leather laces); knots one lace loosely round another; rubs it up and down the other to get a round-section effect.

tanner and roller (whips); spreads side over whip stock with brush, after larding; passes iron hand roller over stock to remove roughness.

ORDER XII.—TEXTILE WORKERS.

Sub-Order 1.—Textile Workers.

351.—FOREMEN AND OVER-LOOKERS.—BLOWING ROOM.

blower major, blowing foreman, blowing room gaffer, blow major, blow room major (slang), scutcher forman, scutcher gaffer (slang); is in charge of blowing room operatives (352) q.v. and is responsible for the proper running of machines under general direction of carder (353) q.v.

352.—FOREMEN AND OVER-LOOKERS.—SORTING AND BLENDING.

foreman wool sorter; wool foreman; directs distribution of wool to sorters (364) q.v., opening of bales, and removal of wool after sorting; must understand technique of wool sorting, and sometimes sorts fleece himself.

inspector, wool inspector (wool sorting); examines sorted wool, to ensure uniformity in sorting and exclusion of waste and dirty wool; may also value damaged wool under buyer's authority.

overlooker; is responsible for running and efficiency of wool sorting department; superintends work of foremen; sometimes also does work of foreman.

wool foreman, *see* foreman wool sorter.

353.—FOREMEN AND OVER-LOOKERS.—CARDING, COMBING AND DRAWING.

carder, carding engineer, carding master, card master; (1) (notion) card overlooker, card room gaffer (slang); superintends all operations in card room of cotton mill, and usually also all other processes preparatory to spinning, including scutching, dirtying, shubbing and turning; is responsible for running of machinery and for quality of carded cotton turned out; (2) (in silk trade) is in charge of silk waste card room; supervises operations of carding and combing; (3) (in sort of combing) an overlooker q.v. in carding section of a wool combing establishment or department; cf. carder (353).

carding master (flax and hemp), *see* for carder (cotton).

carding overlooker (wool); an overlooker q.v. in carding department of woollen mill, or in carding section of a wool combing establishment or department.

card overmaster (flax and hemp), *see* for carder (cotton).

card room gaffer (slang), *see* carder (cotton).

foreman, *see* for overlooker.

foreman carder (felt); an overlooker q.v. in charge of card room where wool or hair is opened out; advances carding machines.

foreman card grinder; a foreman in charge of card grinders (354) q.v.

frame overlooker (card room); an overlooker q.v. in charge of carding department where work is done upon frames, of which there are many varieties.

gill setter, gilling box overlooker (wool and worsted); an overlooker q.v. in charge of gilling section, preliminary to drawing, specially ensures that there is even admixture of worsted fibre passing through gill boxes.

head carder (cotton); the principal carder where an under-carder q.v. is employed, or where there are several carders; is in control of whole carding department.

overlooker; is in charge of a carding, combing, drawing or preparing department of a textile factory, or of some section thereof; is responsible for setting and running of machines, and often himself adjusts them and carries out necessary repairs; also is responsible for quantity and quality of output of machines in his department or section; usually engages and discharges workers; often further distinguished according to department e.g. card overlooker, combing or scutcher overlooker, drawing overlooker.

preparing master (flax); is in charge of preparers (359) q.v. and is responsible for keeping preparing machines in efficient working order.

scribbling engineer, scribbling overlooker (wool); an overlooker or carding engineer q.v. who is in charge of several sets of scribbling machines, i.e. first of three carding engines in series; sees that machines are running properly and is responsible for work turned out; adjusts rate of feed and supervises general working of machines.

speed carder, speed frame overlooker; an overlooker q.v. responsible for working of speed frames or fly frames, i.e., particular kinds of carding machines.

under-carder (cotton); assists carder g.v. in superintending operations in card room, and generally also operation of combing, slubbing, roving, etc.; adjusts machines and does minor repairs to them.

354.-FOREMEN AND OVER-LOOKERS...SPINNING AND DOUBLING (NOT SILK DOUBLING).

doffing mistress, doffing overmaster; is in charge of doffers (350) g.v. and directs their transfer to different frames on work demands.

doubling overmaster (cotton); is in charge of doubling room, and responsible for regularity, quantity, and quality of output, for condition of machinery, etc.

head twister (wool); twisting overmaster; is in charge of twisting department; directs and controls twisters (305); adjusts roller speeds of twisting machines; is responsible for efficient working of twisting frames, and for quality and quantity of output.

mule overmaster, mule tuner, mule gaffer (slang); spinning mule head man; is responsible for efficiency of mule spinning departments; directs and controls minders (305) g.v. and other operatives employed therein; adjusts and repairs machines, and regulates speed of rollers; sometimes specifically designated, e.g. spinning mule overmaster, spinning mule tuner.

overmaster (doubling, spinning); as for overmaster (353), but in charge of doubling or spinning departments.

ring major; (i) see ring overmaster; (ii) supervises working of a section of ring frames under direction of ring overmaster g.v.

ring overmaster, ring major; is in charge of ring spinning department; corresponds to mule overmaster g.v. in mule spinning department.

spinning master; (i) spinning overmaster; (ii) directs and controls spinning overmasters g.v. in large mills where several are employed.

spinning mill steward (silk); a spinning overmaster g.v. in silk spinning department.

spinning mule head man, see mule overmaster.

spinning overmaster; spinning master; is either a mule overmaster or a ring overmaster g.v.

twisting overmaster, see head twister, mule-master (mule spinning); assists spinning master g.v.'s works under his direction, and takes his place when he is absent.

wheel charger; an overmaster g.v. in wool spinning department, so called from work of charging gears and rollers in setting spinning machines.

355.-FOREMEN AND OVER-LOOKERS...WINDING, WARPING, SLABBING, OR SIZING; SILK DOUBLING.

danter (slang); a woman overmaster g.v. in silk throwing department.

doubling overmaster (silk); is in charge of silk doubling department; directs and controls silk doublers (371) g.v. and other operatives in that department.

reelers' overmaster, reeling overmaster; is in charge of department where yarn is reeled into skeins; directs and controls operatives; repairs and adjusts reeling frames, and regulates speed of rollers.

warping overmaster; is in charge of warping room, including beams, mill and section warping; is responsible for condition and running of machinery, and for despatch of yarn after warping.

winders' overmaster, winding overmaster; an overmaster in charge of winding department, or of a section thereof; supervises winders (367), running of winding machines and weighing of full bobbins, cops, etc.;

sometimes specifically designated, e.g., bobbins winders' overmaster, bottle winders' overmaster, cop winders' overmaster.

winding master; a winding overmaster g.v. in charge of entire winding department.

356.-FOREMEN AND OVER-LOOKERS...WEAVING.

fettler, machine fettler (silk weaving), see tuner.

head tuner (weaving); a tuner g.v. who, in small factories, may also act as overmaster (weaving) g.v.

jacquard machine gaiter, jacquard tackler, jacque man; an overmaster (weaving) g.v. adjusting jacquard machines, and supervising operatives engaged on them.

loom gaiter, see overmaster (weaving).

loom master, see overmaster (weaving room).

overmaster (dressing room); loom master; superintends operations of dressing, drawing, reeking, and twisting, in preparation for cotton weaving, including correct setting of heads and selection of coloured yarns, upon which correct weaving of set patterns depends.

overmaster, loom overmaster (weaving); loom gaiter, weaving master, weaving mistress, weaving overmaster; is responsible for efficient running of output of power looms, or of a section thereof; directs and controls weavers and other workers in weaving department; repairs minor breakdowns in looms; sometimes also sets them up, or assists in setting them up; often further distinguished according to type of loom, or class of goods woven, e.g. cotton tappet overmaster, power loom overmaster.

tackler, loom tackler, see tuner; often further designated according to class of loom, e.g. dobby tackler, jacquard tackler, etc.

tuner (linen, hemp and jute trades), see tuner.

tuner, loom tuner, power loom tuner; fettler, machine fettler (silk weaving), tackler, loom tackler, tester (linen, hemp and jute); is responsible for output of a section of looms; usually a weaving overmaster g.v. but is sometimes distinguished as being (a) in charge of a smaller number of looms, and (b) more concerned with manual work of setting up and adjusting looms, putting in bents, and doing minor repairs; a weaving master, weaving mistress, weaving overmaster, see overmaster (weaving).

357.-FOREMEN AND OVER-LOOKERS...OTHER AND UNDEFINED.

colour foreman (carpet manufacture); supervises setting-up (dressing) of looms, and is responsible for correct weaving of coloured yarns selected by colourists (303) g.v.

cotton cloth overmaster, as for taker-in.

dyer; see dyer, foreman, or dyer, master; sometimes specifically designated according to material dyed, e.g., calico, coir yarn, fibre, hair, velvet, dyer; or according to dyestuffs used or colour materials are dyed, e.g., black, madder, Turkey red, etc.; (i) dyer, (358), dyer, foreman dyer; (ii) see dyer, master; (iii) is in charge of a section of men engaged in any dyeing process.

dyer, head, see dyer, master.

dyer, master dyer; foreman dyer, head dyer; directs and controls dyeing processes, specifies colours and mordants to be used in dyeing, and proportions in which ingredients are to be mixed; determines strength and temperature of dyes; matches colours; generally supervises dyers and dye mixers (361); makes visual examination of materials when dyed.

examiner (linen and hemp), see foreman.

foreman; examiner (linen and hemp); is in charge of a department, or of a section thereof; directs and controls operatives in that department or section; is responsible for quantity and quality of output, and for maintaining machinery and plant in good order; often further distinguished according to department, e.g. foreman beater, foreman buckler, foreman peager, foreman stiffener.

foreman finisher; directs operations in textile finishing departments, and is in charge of finishes (384), i.e., colenders, mangles, scorers, millers, tenterers, etc.

foreman rougher; roughing master; a foreman g.v. in charge of roughers (302) g.v.

fustian master, see knifeman.

gasers' overmaster; is in charge of room in which yarns are gassed, i.e., passed rapidly through burner gas flame to remove projecting fibres; is responsible for quantity and quality of gassed yarn produced, and for proper running of machines.

grey man, grey warehouseman; receiver; is foreman of grey room, in which grey (unbleached) cloth is received; receives cloth, marks it according to finishing operations to be performed on it, and passes it to grey cloth weavers and other workers with directions for treatment.

hacking machine man; machine master; a foreman g.v. in charge of hacking machine attendants (362) g.v. and responsible for output of hacking machines; reports to superintendent, etc., to manager or to mechanic.

knifeman (fustian, velvet); fustian master, feeder, toolman (fustian, velvet); prepares guides and knives by which fustian is cut; superintends a number of fustian cutters or velvet cutters (368) g.v. (about 30, as a rule), each engaged on a separate machine; is responsible for regularity of cut pile.

loft man; (North of Ireland linen trade) a foreman g.v. or man in charge of finishing department in a linen bleaching works.

machine master, see hacking machine man.

making-up room man, see white room man.

mill walker, see overmaster.

overmaster, overseer (finishing); mill walker, steward (silk); is in charge of a room or of a department in a textile finishing factory; is responsible for quantity and quality of output of his room or department; adjusts machines, and either repairs them, or gives directions for their repair, and is responsible for their being kept in good running order; sometimes also erects machines; sometimes has sectional overmasters under him.

place overmaster, see taker-in.

receiver, see grey man; cf. receiver (309).

roughing master, see foreman rougher, stenter man; is in charge of stenters (384) g.v. and responsible for efficient working of stentering machines, starching mangles, sizing cylinders, etc.

steward (silk trade), see overmaster.

taker-in; piece overmaster; is in charge of piece takers-in (369) g.v. and responsible for their work; checks amount of cloth received and inspects for faults.

tooler, toolman (fustian, velvet), see knifeman; sometimes specifically designated, e.g., velvet tooler.

white room man; making-up room man; is in charge of workers in making-up room, and in white room where bleached cloth is prepared for finishing; cf. white room man (369); passes cloth, with instructions, to workers concerned, e.g., hooker, maker-up (345), silker (bleacher's) (379) g.v.

300.—WOOL SORTERS.

dayman (wool sorting); general term for any man employed in wool sorting and paid by time, and not at piece rates.

looker-over (wool sorting). wool looker-over; wool taker-off; examines and checks wool already sorted by wool sorter or wool classer, *q. v.*

merino sorter; a wool sorter, *q. v.*, who sorts merino wool, a fine long stapled wool, suitable for combing.

mobair sorter, *as for wool sorter.*

new clip sorter, *as for wool sorter.*

wool classer; sorts whole fleeces, keeping coarse fleeces apart from fine, long-wooled from short-wooled, heavy from light, and dirty from secured; *cf.* wool sorter.

wool sorter, wool stapler; breaks up fleeces into various qualities, according to length, soundness and fineness of fibre; also sorts band-pulled skin wool.

wool sorter's apprentice; assists wool sorter, *q. v.*, works under his direction, and learns trade from him.

wool taker-off, *as looker-over.*

361.—RAG AND WOOL CARBONISERS AND WASHERS.

acid bath tender, *see carboniser (felt).*
carboniser, cloth (wool fabric); piece carboniser; carbonises woollen fabrics in the piece, i. e. destroys vegetable impurities therein; *as for carboniser (rag).*

carboniser (felt, not woven); acid bath tender; feeds and tends acid tanks through which felt is passed to destroy, by carbonisation, impurities of vegetable origin.

carboniser (rag), rag carboniser; destroys vegetable matter in woollen rags by one of two processes: (a) saturates rags in dilute sulphuric acid; dries them in special heated chamber and washes them in water to remove traces of acid; more usually (b) places rags, slightly moistened, in cylindrical revolving cage, in which they are treated with dry fumes of hydro-chloric or sulphuric acid gas; the vegetable fibre, converted into carbon dust, is then removed by shaking or scouring, *see scourer, rag.*

carboniser (wool), wool carboniser; extractor, picker, steeper, wool extractor; treats wool, after scouring, with dilute sulphuric acid; then beats wool, converting vegetable matter into carbon powder, which is removed by further shaking and scouring, *see extractor, wool, wool extractor, see carboniser (wool).*

pickler, *see carboniser (wool).*

scourer, rag; shoddy scourer; flock washer, rag washer, shoddy washer; prepares scouring solution and runs it into scouring machines; places rags in machines, where they are carried along from one bowl to another by rollers and swing robes, to cleanse them and remove carbonised and other foreign matter.

scourer (raw wool), wool scourer; wash-house man, wool washer, wool wash-house man; *as for scourer, rag.*

feeds wool into scouring machines.

steeper, *see carboniser (wool).*

washer, flock; rag washer, shoddy washer, *see scourer, rag.*

washer, wool; wash-house man, wool wash-house man, *see scourer (raw wool).*

362.—BREAKERS, RAG GRINDERS, NEEDLES, AND WILLOWERS.

bale breaker, bale breaker feeder; bale opener, bale feeder; unfastens covering of bales of raw material; lifts material from opened bale, and spreads it on lattice feed of bale breaker machine; also watches proper working of lattices conveying material from machine to mixing stacks and to openers.

beater (flax); maintains supply of waste silk, by hand feeding, to a

beating machine, further to remove dust from silk received from scouter (silk) *q. v.*

bleeder, rag; mixes rags, to get blend of required quality or shade, by spreading layers of different materials on floor of mixing room; gathers-up material and throws it into a machine, revolving scouter, *cf.* scouter feeder (flax or hemp), which completes blending.

blender, wool; gaiter, puller-and-winner, wool mixer; mixes several different kinds of wool, under direction; pulls wool after blending, in preparation for scouring and willoying; in felt manufacture, pulls wool into "blends," and mixes them in a shaker (willey).

blower, blower-up; feeds and operates flax machine, which opens material in preparation for subsequent processes, and removes dirt therefrom; often further distinguished according to material opened, *e. g.*, hair blower; *cf.* blower (369).

blowing engine man, blowing engine tender, (also tender), *see blower room operative.*

blowing room operative, blowing room hand, blow room operative;

Moving engine man, blowing engine tender (also tender); general terms for operative employed in blowing room, where cotton is opened and scutched; includes bale breaker, blower, breaker feeder, finisher minder, hopper feeder, lap carrier, opener feeder, opener tender, scouter, *q. v.*

breaker feeder, breaker tender (cotton blowing room); takes cotton, in loose masses, partly cleaned, from opening machine and passes it into scouter *q. v.*

breaker, bald, *as for willoyer.*

breaker, hard waste; hard waste feeder; feeds and operates machine which opens out hard cotton waste (waste from ring frames and from reeling and winding machines, cop bobbins and other already waste) in preparation for re-spinning, or for use in manufacture of gun cotton.

breaker, hemp; (i) feeds hopper and turns handle of a hand machine, in which hemp is broken into short lengths for convenience in handling; (ii) feeds hopper and watches proper working of power-driven machine; sometimes specifically designated, *e. g.* hand hemp breaker.

breaker, waste, *see garnet machine operator.*

breaker, wool; breaker-up (wool), *see willoyer.*

buffer (flax); feeds hopper and attends to machine which buffs, rubs and removes refuse and course tow from flax, in preparation for scutching process.

bumble worker, *see willoyer.*

cleaner, rag; rag shaker, shaker; minds machine which cleans rags, in preparation for grinding; carries bales of rags to and from cleaning machine.

cleanser, waste; cleans dry waste (sweepings, etc.) by placing it in a sieving or shaking machine; or cleans waste from wet spinning room by putting it under a press to extrude moisture, then into a willoying or teasing machine, and then hanging it on racks to dry; after cleansing, packs it in bales; *cf.* shaker, waste; willoyer.

comber (flax, hair); (i) *see huckler, fibre*; (ii) *see huckler, hair.*

cotton chamber man, cotton room man, cotton room worker; general terms for any worker employed in cotton mixing room, including bale breaker, cotton mixer, etc., *q. v.*

crusher, asbestos; crushing machine; feeds and operates machine which breaks up asbestos and prepares it for opening.

crusher attendant, jute; (i) *see opener catcher, jute*; (ii) *see opener feeder, jute.*

crusher hand (tender), *see opener catcher, jute.*

crusher hand (feeder), *see opener feeder, jute.*

crushing machine man, *see crusher, waste.*

cutter, hemp; minds a machine which divides hemp fibre into convenient lengths; adjusts handful of hemp, and pushes it between gripping rollers, which carry it into contact with blade.

devil (cotton); devil tender; (i)

(hard waste spinning) feeds and operates a waste breaker or devil, which reduces spoiled cotton roves (waste from gule spinning) from hard, or twisted condition to soft condition suitable for spinning; (ii) in some districts, *see willoyer tender* (cotton waste); (iii) in old mills spinning low counts of yarn, *see scutcher (cotton).*

devil (hair), *see scutcher (hair).*

devil, waste, *see garnet machine operator.*

devil minder, devil worker, *see willoyer.*

devil tender, *see devil (cotton).*

double (cotton blowing or scutching); (i) *see finisher minder*, (ii) *see finisher minder, doubler*; *cf.* doubler (360).

doubler finisher tender, *see finisher minder, doubler.*

dresser, fibre, *see backler, fibre.*

dresser, flax; dresses flax, after it has been retted, by passing it by hand over a series of finely graded bales and switches, which complete combing out and splitting of fibres.

dresser hand (flax, hemp); hard backler; combines work of rougher *q. v.* and of sorter (368) *q. v.* process is in substitution for roughing and machine backing.

dresser, hemp; hemp hand dresser, *as for dresser, flax.*

duler, *see willoyer.*

duster, wool, *see willoyer.*

dust shaker attendant, *see shaker, waste.*

ender (flax scutching); straightener; puts dry flax, after it has been retted, on a shaking, which loosens ends and straightens straw in readiness for flax roller *q. v.*

ender (flax spinning); (*E. Scotland*) receives flax from machine backler *q. v.* and combs ends by hand on small fine backler.

feeder, bale, *see bale breaker.*

feeder (cotton blowing and scutching room), *see machine feeder.*

feeder (jute), *see opener feeder, jute.*

finisher (flax or hemp), *see scutcher (flax or hemp).*

finisher minder, finisher tender, finisher machine minder, finisher machine tender; doubler (cotton blowing or scutching) (also tender).

finisher scutcher (cotton blowing room); a scutcher tender *q. v.* who minds last of series of opening and scutching machines; keeps machine supplied with laps of cotton; sometimes to get more uniform substance, partially unrolls silk or tow laps and straightens them on machine feed lattice, takes off finished laps which are now ready for carding.

finisher minder, doubler; doubler (cotton blowing or scutching).

doubler finisher tender; a finisher minder *q. v.* working at a machine manned by a double set of minders.

finisher scutcher, *see finisher minder.*

garnet machine operator, rag garnet worker, garnetter; waste breaker, waste dresser, waste opener; keeps foot sheet replenished and controls by levers a garnet machine, which opens hard twisted woollen, worsted, cotton and silk waste, in preparation for carding.

goods machine minder (rope and twine), *as for backler, machine.*

grinder, asbestos; feeds and operates machine of the needle and marker or centrifugal type which disintegrates asbestos to threads.

grinder, rag; shoddy grinder; rag puller, shoddy puller; feeds and operates machine (devil) which grinds rags to powder; carries rags to and from grinding machine.

hackler, hull, *as for hackler, machine.*
hackler, fibre; *fibre dresser, fibre heckler* *comber (fibre)*; *hackles or combs fibre*, by passing it over a long-toothed hackle, or card, of coarsely set wire teeth, to remove impurities and tangles.

hackler, hair; *comber (hair)*; *as for heckler, fibre*; sometimes also cleanses hair with soap and water, before hackling.

hackler, hand; (i) *see dresser, hand*; (ii) *see rougher.*

hackler, horsehair dry; takes handful of hair, holding one end in his hand, and drawing other and several times through hackle, a comb with coarsely set steel teeth, to loosen hair and open it out, and to remove tangles and impurities; then places hair between two combs, so arranged as to hold it steady, and together forming a "cord," for further combing; sometimes also washes and dries hair before hackling.

hackler, horsehair wet; *as for hackler, horsehair dry*, except that hackling is done while hair is still wet.

hackler, machine; *hackling machine attendant*; minds machine in which short and weak fibres are removed by action of steel pins; controls power-drive of machine, and clamps fibre into holders.

hackler, Manila hemp; places Manila hemp on feed sheet of a combined hacking and drawing machine, which straightens and attenuates it, i.e. draws it out and converts the long coarse fibres into sliver, i.e., loose roving form, guides sliver into cans or baskets ready for preparing department.

hard waste tenter, *see breaker, hard waste.*

hatchellor, *see rougher.*

heckler, fibre heckler; (i) *see hackler, fibre*; (ii) *see rougher.*

hopper feeder, hopper filler, hopper minder, hopper machine hand; places raw cotton in hopper feed of first in series of opening machines in cotton blowing room.

lap carrier; *lapper (blowing and scutching room)*; carries cotton laps from one machine to next in order of process, generally from scutcher room to cards.

lap feeder (on scutcher), *see scutcher feeder (cotton).*

lap machine minder, lap machine tenter, *see scutcher (cotton).*

lapper (blowing and scutching room), *see lap carrier.*

lap springer; *lap thrower-on*; places or "springs in" to position; lap rollers taken off opener scutching machine, opposite feeds of finisher scutching machine, last in series of opening and scutching machines.

lap tenter, lapper tenter, *see scutcher (cotton).*

lattice feeder (cotton blowing room), *as for machine feeder.*

machine feeder, machine feeder-on (cotton blowing and scutching room); *feeder*; general terms for any operative who feeds, by throwing cotton on to the lattice, any machine in blowing and scutching room, i.e., hule breaker, cotton mixer, opener feeder, scutcher *q.v.*

machine hand (hair); general term covering workers attending hair preparing machines; includes opener (hair), teaser (hair), unwister (hair), wileyer *q.v.*

millor, shoddy; *see grinder, rag.*

mixer, cotton; directs and supervises mixing of different blends of cotton in fixed proportions, forming a mixing, or stock, which is conveyed to opening machine.

mixer, tow; mixes grades of tow in correct proportions, and takes mixture to carding machines.

mixer, wool, *see blender, wool.*

opener, asbestos; attends and feeds machine which loosens and cleans asbestos fibre, in preparation for carding; collects opened fibre in bags or trucks.

opener, bale, *see hule breaker.*

opener (cotton), *see opener tenter.*

opener (hair); (i) *see unwister (hair)*; (ii) opens out untwisted hair rope, loosening fibres which are more or less matted together, in preparation for carding or teasing; if using a machine, is sometimes designated machine opener; (iii) (flax, hemp and jute), opens bales of hemp with hatchet, and loosens material, in preparation for hatching and machine heckling, entirely by hand, with a rake, with hand hammer and by forcing to steam hammer, or to crusher machine, according to density of fibre and plant installed; *cf. opener catcher, jute; opener feeder, jute*; sometimes also does work of hatcher (308) *q.v.*

opener, waste (machine), *see garnet machine operator.*

opener, wool (felt manufacture); places wool on bedstead of machine which opens it out for use in manufacture of felt.

opener catcher, jute; crusher hand (ender), jute crusher attendant; removes crushed fibre as it issues from jute opener machine; usually also assists in opening bales of jute.

opener feeder, opener machine feeder, opener tender (cotton); opener (cotton), *opener minder, opening machine hand*; lays loose cotton on lattice feed of machine which opens and cleans it; sometimes specifically designated according to type of machine used, e.g., Crighton opener feeder, Crighton opener machine feeder, Crighton opener tender.

opener feeder, jute; crusher hand (feeder), feeder (jute), jute crusher attendant; opens bales of jute, and puts or feeds heads into machine which crushes fibre, ready for batcher (248) *q.v.*

opener minder, *see opener tenter.*

opener scutcher tenter; an opener feeder *q.v.* who minds an opening machine with which is combined the lap-forming part of a scutcher.

opening machine hand, *see opener tenter.*

parter (silk); opens bundles of raw silk, and separates them into smaller bundles.

picker, cotton; cotton teaser; (i) passes dried raw cotton or cotton waste through a series of machines which tease and pick it, separating fragments of foreign matter, breaking up lumps and removing dust, in preparation for manufacture of gun cotton; (ii) picks and teases cotton by hand.

preparer, preparing hand (flax or hemp); general terms covering all operatives engaged in preparing flax or hemp for carding, drawing, and spinning, including breaker, dresser, machine heckler, rougher, softener *q.v.*; *cf. preparer (silk).*

puller, rag, *see grinder, rag.*

puller (wool), puller-and-runner, *see blender, wool.*

rester, flax rester; places sheaves of flax straw in water in a pit or tank, until central stems have rotted and slough down enough to set free flax fibre, which grows up outside stalk; removes sheaves when process is complete and opens them out, to be dried.

ripper (shoddy), *see teaser, shoddy.*

roller, flax; crimper; passes flax straw through fluted rollers of machine, which break up core of stalk in preparation for strikings *q.v.*

roller, hemp; hand hemp roller, *see softener.*

rougher (flax, hemp, hemp rougher; fibre heckler, hand heckler, hatchellor, heckler); draws flax or hemp, by hand, through a set of hackle pins, arranged in a wooden block, called a rougher's tool, to comb out short and irregular fibres and to level cords, in preparation for dressing or machine heckling.

sack hand, *see unwister (hair).*

screeener (wool); feeds and operates machine which cleans dirty wool, dirt falling through grid (screen) and being carried away by suction.

scutcher, lap scutcher (cotton); devil (cotton) (old mill), *lapper tenter, lap feeder, lap machine minder, lap machine tenter, scutcher minder, scutcher tender*; minds a scutching machine, which cleans cotton and draws it in form of laps, i.e., smooth rolls resembling wadding; sets in motion guide controlling width of lap and causing it to wind on to roller; takes off lap roller when full and starts fresh one; clears away obstructions in machine.

scutcher, scutcher tender (flax or hemp), finisher (flax or hemp); lays together what is left of two handfolds of flax treated by huffer *q.v.*; thrusts this partially treated mass over top edge of a vertical iron plate, and moves it to and fro, exposing it to beating action of revolving hammers or blades, which run close against face of plate, and which complete separation of straw from fibre; turns handfold of flax end for end, and opens it so as to expose all parts to huffer; then folds finished mass and puts it aside to be weighed and packed.

scutcher (hair); devil (hair); feeds hopper and controls by levers a scutching machine (devil) which opens out hair fibre in preparation for carding.

scutcher (silk); operates and attends machine in which loose, broken and straightened short fibres of silk waste, i.e., noils, and partially cleans ready for tenter (silk) *q.v.*; feeds machine, by hand, and removes laps, i.e., smooth rolls of fibre resembling wadding, of scutched silk.

scutcher feeder (cotton); lap feeder (on scutcher); feeds "laps" to scutching machine (*see scutcher*), or places by side of scutcher *q.v.* in charge of that machine; may also remove full laps from finisher scutcher and place aside for removal to carding machine.

scutcher minder, scutcher tenter (cotton), *see scutcher (cotton).*

shaker, rag, *see cleaner, rag.*

shaker, waste (flax, hemp); dust shaker attendant; shakes sweepings in a sieve, or in a rotary sifting machine, to remove dust and dirt; puts clean sweepings into bales or bags.

shaker, shaker-up (wool), *see wileyer.*

softener, hemp softener; hand hemp roller, hemp roller; softens hemp fibre in preparation for treatment by hemp breaker *q.v.*, by passing it through fluted rollers of a machine; controls power-drive of machine, and feeds it with hemp stalks.

straightener (flax), *see ender (flax scutching).*

striker (flax); receives flax straw as it issues from rollers, divides it up into convenient handfuls (stricks), and gives them a slight twist to make material hold together; passes striks to scutcher *q.v.*

tearer, shoddy; ripper (shoddy); tears seams, collars, etc., from old garments, to facilitate passage of cloth through blending, grinding, etc. machines in shoddy manufacture; *cf. blender, rag grinder, rag.*

teaser, cotton, *see picker, cotton.*

teaser, taker man, *see wileyer.*

teaser, shoddy, *see wileyer, rag.*

thrower-on, lap, *see lap springer.*

tow feeder; (i) feeds, by hand, travelling band apron of breaker card, with tow; *as for breaker feeder (363)*; (ii) feeds carding engine, or mixing machine attached thereto.

trapper, wool; a wool blender *q.v.* who throws wool from one mixing room to another through trap doors in floor.

unwister (hair); opener (hair), *see hule breaker, hair*; hand, untwists hair rope made by curler (308) *q.v.* in preparation for carding or teasing.

weigher and feeder (cotton); (i) weighs loose cotton when first rolled to form lap in lap machine, and passes it to scotcher; *q.v.* (ii) (in cotton washing frame) weighs out material and passes it to carding engine.

whimseyer, *see cleaner, rag.*

willayer, willay girl, willayman, willier, willier, willower, willow-er, willow tender, willow machine; breaker-up (wool), bumble worker, devil minder, devil worker, dater, shaker, shaker-up, feeder tender, wool breaker, wool dater, wooler, throws handful of wool or hair, hemp or flax, etc., on to brattice of other feed apparatus of willaying machine, which separates fibres, and breaks up their natural matted state, and shakes out dirt and foreign matter therefrom, in preparation for carding; sometimes also blends materials together in process of willaying.

willayer, rag; sloddy tender; minds and feeds willy machine, which prepares rags for grinding or garnetting. willow, willowyer, willow tender (cotton waste); devilier (cotton) (some districts); feeds willowing or willaying machine, *see willayer*, sometimes also keeps it in running order, and is responsible for its efficiency.

woolifier, *see willayer*.

363.—CARD, COMB, AND FRAME TESTERS (NOT RING OR CAP FRAMES); BOX MINDEES.

back end minder, *see card minder* (wool).

backwasher, backwasher minder, backwasher tender, backwash minder; passes wool slivers through backwashing machine, which recombeds them, by addition of oil, cleanses them, and improves their colour.

balling finisher minder, *see finisher* (wool combing).

baller, balling head minder, balling machine minder (wool combing); makes up comber wool into balls, or tops, in readiness for spinning; attends to balling head of a gill box; stationed at back of machine, removes sliver when formed into a ball in gill box, carries balls to next machine, *e.g.*, drawing frame; sometimes specifically designated, *e.g.*, sliver baller (juto).

balling punch minder, *see puncher*.

ball machine minder (juto); *see for baller*; attends machine which winds sliver (from breaker card) into chess-shaped balls, ready for running into finisher cards.

ball maker for combs, *see puncher*.

bank minder (Scotland); bank waster (woollen carding); watches second or third machine in series of wool carding machines; reports faulty work to carding engineer (333); oils machine and keeps it clean.

bank waster; (i) (cotton) places cotton waste in heaps; (ii) places end of one drawing frame and feeding end of another; breaks off sliver as can becomes full; carries can to feeding end of second machine and passes end of sliver through guides.

big tender; is principal attendant on a frame or machine, where more than one is employed; starts and stops machine; assisted by little tender (309) *q.v.* mends or pieces broken rovings; creels bobbins, oils machine and keeps it clean by removing pieces of fluff; takes away full bobbins; general term, covering jack tender, slab frame tender, fly frame tender, etc.

hilly tender; attends to front of finisher or condenser carding engine, taking off condenser bobbins, and converting them to make spinning frame; *cf.* hilly tender (365) hobble and fly frame tender, *see fly frame tender*.

box and Derby tender (cotton waste); is employed in waste spinning, minding and attending both on draw box (in draw frame) and on Derby dobber; mends slivers on draw frame when broken in drawing process, and feeds dobber with these slivers, which are combined therein to form a lap. box tender (wool combing); *see tender* (wool combing); watches one of a series of machines, called boxes, used in combing wool, or in preparatory processes, either a strong box, a preparing box, or a gill box, reports faulty work, bent pens, variations in speed, etc., to comber overlooker (333); sometimes specifically designated, *e.g.*, preparing box minder.

box tender (cotton); (i) card box tender; attends to back part of carding engine, *i.e.*, box part, between dobber and comber, and keeps it clear of fly (waste fibre thrown off in carding) and grease; (ii) *see draw frame tender*.

box tender, card; (i) *see box tender* (cotton); (ii) attends to delivery of sliver from cards, and to feeding of draw frames or draw boxes therewith; breaks off sliver as can becomes full and inserts end of sliver in guide of draw frame.

box tender, intermediate (draw frame); intermediate draw box tender; a draw frame tender *q.v.* minding second of series of draw frames or draw boxes.

box tender, intermediate (fly frame); removes empty bobbins from boxes at back of intermediate frame, second in series of fly frame or speed frame machines, and supplies full bobbins to be inserted in frame by crutch (369) *q.v.*

box tender (wool combing); *see box minder* (wool combing).

breaker, can, *see breaker-off* (cotton).

breaker feeder; card end boy, carder, card tender, card feeder (jute), card hand, feeder; takes hatched jute from barrows (in which it has been allowed to stand, still retaining oil from softening process, to condition), or takes from dollap weigher (369) *q.v.*, where weight of roving is governed from output of breaker card; spreads jute upon feed apron of carding machine and, when feeding weighed dibbles, watches weight indicator to regulate amount fed.

breaker-off (cotton); *see breaker*; a card tender (cotton) *q.v.*, who breaks off sliver from card at delivery end of carding engine, when sliver-can is full, and starts fresh can.

breaker-off, breaker-up (wool combing); lap breaker-off; wool take-off; sees to removal and transference of wool from one preparing box to another; when sufficient sliver is wound round roller in box, breaker-off sliver and transfers to another box.

bunshar, *see drawer, hair*.

can box minder (wool combing); *see minder*; attends any one of several machines which deliver sliver into a can or draw is therefore, *i.e.*, back-washer, strong boxes, first gill boxes, flaxer boxes, or combing machines; replaces, at front of machine empty cans with full ones, and, at back, substitutes empty cans for full ones, breaking off sliver as can becomes full.

can finishing minder, *see gill box minder*.

can minder, *see can box minder*.

can tender, *see card tender* (cotton).

card and drawing band (juto); attends feed of firm drawing frame; also takes cans of sliver from finisher carding machine, and places them at feed end of drawing machine, when this is not done by can filler (369) *q.v.*

card attendant, *see card minder* (flax and hemp).

card end boy, card tender (flax, hemp and jute); (i) *see breaker feeder*; (ii) (more usual) *see finisher card tender*.

*carder, asbestos; attends to delivery end of machine in which asbestos is carded; (i) slivers are spaced out, and arranged approximately parallel, knots and foreign matter being removed; watches machine for proper working; breaks off sliver as can becomes full and places end in empty can.

*carder (female); (i) (cotton) *see card tender*; (ii) (wool) *see card minder*.

*carder, fibre; card millhand; supplies carding, or opening out machine, with matted fibre obtained from bales of coco-nuts, and watches machine during carding process; keeps working parts clear of grease and waste fibre.

*carder (flax and hemp); (i) *see card minder*; (ii) in Dundee and Belfast, sometimes used in sense of carder (333) *q.v.*

*carder, hair; (i) *see carder feeder* (felt); (ii) *see carder* (hand, hair curling) (iii) (wool) *see specifically designated*, *e.g.*, horse hair carder.

*carder (hand, hair curling); hair carder; hackles or combs curled hair after it has been opened by copier (332) *q.v.*, and passes it over in card of fatty set wire teeth, which loosen or tease out hair into individual strands; (machine hair curling), *see tanner, hair*.

*carder (juto), *see breaker feeder*.

*carder, rolling, *see card minder* (wool).

*carder, tow, *see first card hand*.

*carder (wool), wool carder; (i) a woman or girl employed as a card minder *q.v.*; (ii) in a felt hat factory, combines duties of card feeder card minder, grinder (364) and stripper (364) *q.v.*

carder, carder (felt); feeder (felt); hair carder, scribbler (felt); spreads wool or hair evenly over brattice, or frame, of carding machine; and lifts off hat or lap as it is formed on machine.

carder feeder (wool) *see card feeder* (wool).

card feeder (cotton), *see lap feeder* (on cards).

card feeder (juto), *see breaker feeder*.

card feeder, card filler (wool); carder feeder (wool), engine feeder, feed box minder (Scottish).

(wool), leveron, ingger-on, scribble filler, scribbler, feeder, scribbler feeder, server (wool), wooden feeder; puts blended wool into automatic hopper feed, or, more rarely, spreads it on lattice feed, of carding engine set, which combines processes of scribbling (course carding), carding (opening out strands, arranging them parallel and extracting foreign matter) and condensing (lap into sliver).

card front tender (cotton); places cotton lap on feed roller, and guides it into carding engine, so that lap is in proper condition as it enters machine.

card hand (flax, hemp and jute); (i) *see finisher card tender*; (ii) *see breaker feeder*.

carding engine attendant; general term for any worker attending to carding engine, *e.g.*, feeding it with laps or removing slivers therefrom; includes carder feeder, lap feeder, card minder *q.v.*

carding engine condenser feeder; a card feeder (wool) *q.v.*, who lays lap on feed roller of condensing engine; usually done automatically.

carding engine tender, *see card minder* (wool).

carding machine attendant (bedding); passes flock into carding machine; takes it out when it is carded, and puts it into mattress cases.

* *Card tender* (male) in sense of carding tender—this term is used in textile trades, and commonly in other textile industries *see Code No. 303*.

carding minder, *see* card minder (wool).

card minder (flax and hemp); (i) *card attendant*, *carder*; watches proper working of carding machine, which converts tow into sliver; breaks sliver at delivery end as cans become full; (ii) (*juste*) *see* *finisher card ender*.

card minder (wool); back end minder, *carder* (*female*), *card tender* (wool), *carding minder*, *carding engine tender*, *condenser minder* (wool), *engine head tender*, *machine minder*, *minder*, *rolling carder*, (*scribbler* wool); watches machine which performs combined processes of carding, card feeding, and condensing wool (*see* card feeder); is stationed at back of machine; guides sliver ends into cans or on to bobbins, breaks sliver and removes filled bobbins or cans and replaces with empty ones.

card tender (cotton); *carder* (*female*) (*cotton*), *can tender*, *engine head tender*; attends to doiler or delivery end of carding engine, mending slivers broken in carding, and removing cans full of sliver.

card tender (wool), *see* card minder (wool).

comber, brush fibre, *see* hackler, brush fibre.

comber (cotton); *comb minder*, *comber tender*; operates combing machine, which combs out short fibres in preparation of fine cotton yarns; guides cotton laps on to rollers, starts machine, receives combed cotton, in form of slivers, in boxes or cans, and removes cans as they are filled.

comber, comb minder (ramie); puts up cans of gilled sliver at back of combing machine, which combines eight or more slivers into one, and renders fibres more nearly parallel; takes away cans of sliver at delivery end, after combing, in readiness for next process; keeps working part of combing machine free from fly or waste.

comber (silk), *see* dresser (silk).

comber (wool), wool comber; (i) general terms for any person employed in wool combing department; (ii) *comb minder*, *comb tender*, *comber tender*, *combing finisher*, *combing machine minder*, *minds combing machine*, which separates short fibres of wool (mels) from long fibres (tops).

comber tender; (i) *see* comber (cotton); (ii) *see* comber (wool).

combing finisher, *see* comber (wool).

combing machine attendant (flax and hemp); tends combing machine, which doubles, attenuates, and further straightens sliver, as received from tow carding process, in preparation for further processes of drawing and preparing; breaks off sliver as cans become full at delivery end; feeds end of sliver into guides at feed end; reports faulty work to preparing master (353) *g. s.*

combing machine minder, *see* comber (wool).

comb minder; (i) (silk) feeds with silk waste, machine for combing short fibre silk waste, after carding; (ii) (*other textiles*) *see* comber (cotton), comber (wool), comber (ramie).

comb tender, *see* comber (wool).

condenser, condenser minder, *condenser tender* (silk); attends a machine which combines several silk slubbings into one; feeds ends of slubbings into guides at feed end; breaks off slubbing as can becomes full at delivery end.

condenser minder, *see* card feeder.

condenser minder (flax and hemp); feeds and controls condensing machine, or finisher card, a final carding machine used in preparation for spinning of tow, waste flax, and hemp; or for card minder (flax and hemp).

condenser minder (wool), *see* card minder (wool).

dandy minder, dandy tender, *see* rover, dandy.

Derby tender, Derby minder; *Derby dobler*, *doubling tender*, *lap piercer*, *lap tender* (*cotton*), *sliver upper*, *sliver lap tender*, *sliver tender*; watches Derby doubling or sliver lap machine, which unites several slivers into a sheet, and winds them on a cylinder; feeds ends of slivers into guides at feed end, removes lap rollers at delivery end.

rodger, can; can taker-out; removes full sliver cans from machine, and substitutes empty ones.

doubler, Derby, *see* Derby tender.

doubler, sliver doubler (flax, hemp); attends special drawing frame, in which two or more slivers, and drawing them out into one more even sliver in preparation for spinning; feeds ends of sliver into guides and breaks off sliver at delivery end as cans become full.

doubling tender, *see* Derby tender.

draw box minder, draw box tender, *see* draw frame tender.

drawer, botany; a drawer (wool combing) *g. s.* engaged in drawing botany wool, fine quality wool used in worsted trade.

drawer (cotton), *see* draw frame tender.

drawer (flax and hemp); drawing frame attendant, drawing frame minder; minds a drawing frame, which draws and attenuates sliver; passes sliver into feeding rollers, and watches delivery of drawn slivers into sliver cans.

drawer, hair; butcher, drawing hand (hair); secures a bunch of hair after (hair) has been balled between folding boards, like covers of a book; draws it over finely set wire teeth, called cards, to remove short lengths of hair; draws out hairs of approximately equal length, either by above method or by drawing hair between thumb and a rough razor, and makes them up into lumps, which he also sorts hair into grades, according to fineness, condition and colour; often also acts as backler (352) *g. s.* before drawing.

drawer, horsehair, *as for* drawer, hair.

drawer, long wool, *as for* drawer (wool combing).

drawer, *see* drawer (silk spinning); drawing box minder (silk); drawing box tender, drawing tender, *re-drawer*; minds machine which combines several slivers and draws or attenuates them into one spun silk sliver; *as for* draw frame tender (cotton).

drawer (wool combing); drawing box minder, drawing box tender, reducer, reducer minder, reducing box minder, slubber, slubbing frame tender, slub frame tender; minds machine, called a reducer or reducing box, which attenuates combed and prepared wool to thickness and weights required for rearing frame; watches to ensure that there is continuous flow of wool passed through machine; joins up broken sliver, loose rope of fibre, first stopping machine if necessary.

draw frame tender (cotton); box tender, drawer (cotton), draw tender, drawing tender, drawing frame tender, draw box tender, draw box minder, drawing box minder, drawing box tender, drawing frame attendant, drawing frame minder; feeds into guides of machine, called a draw or drawing frame, or draw box, ends of cotton slivers; mends slivers broken in process of combing and drawing out the sliver; attends to draft rollers and clearers of drawing frame, keeping them clear of loose particles.

draw frame tender, front, *see* front minder (cotton draw frame).

drawing box minder, drawing box tender, *see* draw frame tender (cotton).

drawer (silk spinning), or drawer (wool combing).

drawing ender (jute); front of drawing hand; stands at front of machine, which draws out and attenuates sliver and delivers it in form

of sliver; sees that sliver issues evenly into sliver cans; replaces cans, as they become filled, with empty ones, drawing ender (wool combing); stands at back of drawing frame, and unites ends of sliver, and passes them in to feed rollers of frame.

drawing feeder; feeder (jute), keeps drawing machine supplied with full cans of sliver, and removes empty cans.

drawing frame attendant, drawing frame minder; (i) *see* drawer (flax and hemp); (ii) *see* draw frame tender (cotton).

drawing hand, double, *see* between-drawings attendant.

drawing hand (hair), *see* drawer, hair.

drawing hand (rope and twine), *as for* drawer (flax and hemp).

drawing hand (wool combing); general term for any person employed in drawing department of a wool combing establishment.

drawing hand (other textile materials), *see* drawer (under appropriate sub-heading, according to material), (*juste*) *as for* card and drawing hand; for subsequent drawings, *as for* drawer (flax and hemp).

drawing machine minder, *see* drawer (under appropriate heading, according to material).

drawing tender, draw tender, drawing frame tender (cotton), *see* draw frame tender.

drawing tender (silk), *see* drawer (silk spinning).

dresser, hair; fat dressing machine minder; a dresser (silk) *g. s.* who minds a fat dressing machine, requiring hand setting, as distinguished from patent dresser *g. s.*

dresser, hair; is capable of treating horsehair and similar hair from first to final stage; is usually a hair dresser *g. s.*; sometimes specifically designated, *e. g.* horse hair dresser.

dresser, jelter frame; jelter; is one of a pair of silk dressers *g. s.* who are jointly responsible for working of two dressing frames, who share wages jointly earned after paying wages of filler *g. s.*, and who also do work of dresser's assistant *g. s.*

dresser, line; dresses line or flax, a stage in manufacture of linen; for processes, *see* dresser, machine.

dresser, Manila; clamps undressed fibres of Manila hemp between folding boards, and combs out short protruding fibres; reverses fibres in boards, and repeats combing process.

dresser, patent; patent dressing machine minder; dresses, *i. e.*, removes the staple ends or short lengths from spun silk on a machine which, unlike ordinary flat dressing machine, is automatic, and does not require to be set by dressers.

dresser (silk), frame dresser, silk dresser; roller (silk), *frame*; directs dresser's assistant and filler *g. s.* in opening-out degummed silk waste and placing it between in-boards; sets a number of such boards in one of a series of dressing frames with protruding fringe upperside, and reverses and straightens fibres by bringing into contact with revolving steel comb; reverses fringe and repeats process; usually a flat dresser *g. s.*; sometimes specifically designated, *e. g.* first frame dresser, second frame dresser, third frame dresser (according to position of dressing frame in series), machine dresser, nodler frame dresser, short frame dresser (short lengths of silk fibre).

dresser, waste (silk), *as for* dresser (silk).

dresser's assistant; filler, filler boy, dresser's filler, filler of sliver; fills, turns, and empties in-boards, *i. e.*, sliding book-boards, used by silk dresser, in facturing; here dressing process is sectionalised.

engine feeder, *see* card feeder (wool), engine head taster; (i) *see* card minder (wool); (ii) *see* card tender (cotton).

feed box minder (Scottish term) *see* card feeder (wool).

feeder, machine feeder; general terms for any worker engaged on a card, comb, gill box, back washer, or scouring machine; includes back-washer minder, breaker feeder, card feeder, condenser minder, draw frame tender, finisher card tender, gill box feeder, lap feeder, silk rover, rover, scribbler feeder, spreader, g.v. feeder (felt), *see* carder feeder (felt), feeder (flax and hemp); (i) feeds travelling hand upon of breaker card with tow; (ii) feeds drawing or roving frame with sliver.

feeder (flax waste), *see* for condenser minder (flax and hemp).

feeder (jute); (i) *see* breaker feeder (jute); (ii) *see* drawing tender.

feeder (wool); (i) (felt making) *see* wool feeder; (ii) (wool carding) *see* card feeder.

filler, filer boy, dresser's filler; (i) *see* dresser's assistant; (ii) attends filling engine, which opens-up delinted silk waste for re-drawing of dressing frame; puts silk on feed sheets, or creper, and afterwards takes it from engine combs, *cf.* dresser (silk spinning), dresser's assistant.

filer of shute, *see* dresser's assistant. finisher card tender, finisher card minder; card end boy, card tender, card hand, card minder; feeds, by hand, two finisher card machines with bails or bands of sliver received from breaker card machine.

finisher (wool combing), finishing box minder, finishing gill box minder; *bolting finisher minder, giller and finisher*; minds a finisher gill box, which delivers tops in condition ready for spinner; feeds machine with sliver, i.e., loose tops of fibre, and removes as delivered from machine.

finishing box tender; (i) a draw frame tender *g.v.* who minds third, and final, set in series of drawing frames; (ii) minds back, (box) portion of breaker and finishing dressing engines in cotton waste card rooms.

first bobbin and fly frame tender; slubber, slubbing frame tender, slubbing tender, slub tender; a fly frame tender *g.v.* who minds dubbing frame, first in series of fly frame or speed frame machines.

first card band (rope and twine); *low carder*; minds first in series of carding engines; passes hemp or tow into feed rollers, and controls power-drive of machine.

first dressing machine minder, *see* dresser, flat.

fly (fyer) frame tender, fly (fyer) tender; bobbin and fly frame tender, speed frame tender, speed tender; general terms for a woman or girl minding a fly, fyer, or speed frame, which by action of fyers attenuates and twists cotton and winds it on to bobbins; inserts bobbins containing cotton, mends threads broken in drawing process, and takes away bobbins full of twisted cotton.

fourth bobbin and fly frame tender; jack tender, jack frame tender; a fly frame tender *g.v.* who minds jack frame, fourth, and last, in series, of fly frame machines.

framer, *see* dresser (silk spinning); sometimes specifically designated according to dressing frame series, *e.g.* first framer, second framer, third framer.

frame tender; general terms for any operative minding a machine, called a frame, used for attenuating, i.e. drawing, textile materials, including fly (fyer) or speed frame, draw frames, etc., includes high tender, draw frame tender, silk dresser, finishing box tender, fly frame tender, intermediate frame tender, rover *g.v.*

front minder, front tender (cotton draw frame); front draw frame tender; pushes cotton sliver as it issues from first drawing process, into silver can.

front minder (jute); front of roving attendant (jute), rover, front rover; stands at front of jute roving

machine, and mends threads broken in roving process by splicing, i.e. wrapping together, ends, starts end stops machine, as necessary, by hand lever; is assisted by shifter (jute preparator) *g.v.*

front of drawing hand (jute), *see* drawing tender (jute).

front of roving attendant (jute), *see* front minder (jute).

gill boxer, gill box feeder; giller, gilling machine minder (silk); general terms for an operative minding any machine furnished with gills, and used in dressing or preparing silk, *e.g.*, a spreading, roving or setting frame, *cf.* spreader (silk), gill, rover; *see* box minder (silk).

gill box feeder (other materials), *see* giller (not silk).

gill box minder, gill drawer; *see* finishing minder, gill tender; minds a gill box which treats several wool tops collectively in such a way as to produce a sliver of uniform weight and density, in preparation for drawing process; feeds ends of sliver from top into guides of machine, raises up broken neps and generally watches proper working of machine.

giller, gilling machine minder (silk), *see* gill boxer.

giller (not silk); gill box feeder; keeps gilling machine (which unites several slivers into one, for greater uniformity of substance) supplied with sliver in silver cans.

giller and finisher, *see* finisher, gill tender, *see* gill box minder.

hopper, truck fibre; brush fibre comb; huckles and combs coco-unt fibre by hand; draws a hazzel of fibre across pins of a series of huckles and combs to remove short and irregular fibres, and to straighten out and level the ends of longer fibres.

hopper feeder, hopper minder; places material in hopper of carding, drawing, or other machine.

huck mill hand, *see* carder, fibre.

inter frame tender, intermediate frame tender, intermediate minder, inter intermediate machine minder, inter tender, second bobbin and fly frame tender; a fly frame tender *g.v.* who minds intermediate frame, i.e. second in series of fly (fyer) or speed frames.

intermediate machine minder; (i) (cotton) *see* jack frame tender; (ii) (wool) minds intermediate carding machine between scribbler and condenser; pieces up broken rovings; oils machine and keeps it clean of flax.

inter tender, *see* inter frame tender.

jack tender, jack frame tender, *see* fourth bobbin and fly frame tender.

jagger; a strong box minder *g.v.* in charge of first, or preliminary, combing machine, after passing through which wool is usually dyed and then re-combed.

joiner, *see* dresser, joiner framer.

joiner tender; is one of a pair of operatives who share work of minding draw frames, fyer frames, or other machines, and divide their joint earnings equally or in agreed proportions.

lap feeder (cotton); card feeder (cotton); places cotton lap from scouring machine on feeding end of carding machine.

lapper, lap framer, *see* spreader (silk).

lap pincer; (i) *see* Derby tender; (ii) connects new lap with end of old lap, already in machine.

lap tender (cotton), *see* Derby tender.

lap tender, ribbon, *see* ribbon tender.

lap tender (silk), *see* spreader (silk).

lap tender (wool); takes lap from carding engine, and either folds it or guides it on to winding beam; carries wound or folded lap to next machine in order of process.

lattice feeder; puts material on lattice feed attachment of any machine.

layer, *see* spreader (flax); *cf.* layer (silk).

layer-on, ligger-on, *see* card feeder (wool).

machine minder, *see* card minder (wool).

maker-up, wool maker-up; keeps carding and preparing machines supplied with wool.

minder (carding), *see* card minder (wool).

patent dressing machine minder, *see* dresser, patent.

preparer, preparing hand (flax, hemp, jute); general terms for worker tending any machine which prepares fibre for spinning, including spreader, drawer, roter, *g.v.*; *cf.* preparer (silk).

preparer, line, *as* for preparer (flax, hemp, jute).

preparer, preparing machine minder (silk); places long-lived silk waste in position at back of preparing machine, and passes it between rollers, from which it is usually taken through machine and wound upon an endless apron.

puncher; bolting punch minder, ball maker for combs, punch minder, punch tender, punch box minder (wool combing); punches or pulls wool slivers, from first gill box, after backwashing process, by colling or rolling them on a special punch box, in preparation for combing.

puncher, minder, punch box minder, *see* puncher.

re-drawer, *see* drawer (silk spinning).

redgiver, reducer minder, reducing box minder, *see* drawer (wool combing).

relapper; takes silk after it has been formed into a lap by spreader *g.v.*, and passes it through another machine, similar to spreading machine, called a re-lapping box, to level up lap.

ribbon tender; ribbon lap tender; guides cotton between rollers of ribbon lap machine, which produces uniform lap for combing machine; starts machine, using pressure rod for making first turn of lap.

rover, asbestos; guides asbestos fibre through roving frame, which twists and attenuates it in preparation for spinning; attaches it to roving bobbin, controls power-drive of machine, and mends fibres broken in roving process.

rover (cotton); rover tender, roving tender, roving frame tender (cotton), small speed tender, third bobbin and fly frame tender; a fly frame tender *g.v.* who minds roving frame, being third in series of fly frame or speed frame machines.

rover, dandy; dandy minder, dandy tender, first framer, first framer dresser, rover (silk); minds dandy roving frame, which further attenuates and twists slubbing from gill roving frame, and winds re-combed rovings on to bobbins, places bobbins on roter, feeds machine and takes off full bobbins.

rover (flax and hemp); minds a roving machine, which twists and attenuates line or tow in readiness for spinning process.

rover, gill; roter (silk); feeds gill roving frame with sliver from drawing boxes which is converted into slubbing by further attenuating it and superposing it.

rover, gill, on to bobbins, ready for dandy roter *g.v.*

rover, front roter (jute), *see* front minder (jute).

rover (silk); (i) *see* rover, dandy; (ii) *see* roter, gill.

rover (wool); rover minder, rover tender, roving tender, roving box minder (wool), sliver minder, sliver roter (wool); mends roving frame, lost in drawing series, immediately preceding spinning, which advances wool to condition of roving, or loosely twisted cord of wool; inserts full bobbins, from draw (wool combing) *g.v.*, into frame; guides sliver end through machine and attaches to roving

bobbin; start-up and stops frame as necessary; mends broken roving ends, does full roving bobbins and replaces with empty.

rover minder, rover tenter, roving minder, roving box minder, roving frame minder, roving tenter, roving frame tenter; *see* rover, according to material.

run-over box minder, *see* set box minder.

scribble filler, scribbler, scribbler feeder, scribbling feeder; a card feeder (wool) *g.v.* who spreads wool latwise of scribbling machine, the first of a series of three carding machines.

second bobbin and fly frame tenter, *see* inter frame tenter.

server (wool), *see* card feeder (wool); *cf.* server (felt) (366).

set box minder (felt); run-over box minder; mends set or run-over box, which converts lap, after passing through spreading and re-lapping boxes, into a sliver.

shifter (quite common), rove shifter; replaces full bobbins by empty ones on carriage of roving machine and gives ends of rove a twist round bobbin.

silver breaker; a card tenter or can tenter *g.v.* who breaks off sliver from carding engines or drawing frames when silver can is full; removes silver can and starts fresh can; *cf.* can boy (369).

silverer, *see* rover (wool).

silver lapper, silver lap tenter, *see* Derby tenter.

silver minder (wool combing), *see* rover (wool).

silver tenter, *see* Derby tenter.

slubber, slab tenter, slubbing tenter, slubbing frame tenter (cotton), *see* first bobbin and fly frame tenter.

slubber, slab frame tenter, slubbing frame tenter (wool combing), *see* drawer (wool combing).

small speed tenter, *see* rover (cotton).

sorter, horse hair, *as* for carder, hair.

spare tenter; a fly frame tenter *g.v.* able to take place of any fly frame tenter absent through sickness, &c.

speed tenter, speed frame tenter, *see* fly frame tenter.

spindle box minder, spindle gill box minder; a gill box minder *g.v.* in charge of a spindle gill box, which, besides drawing, winds wool upon bobbins.

spreadboard attendant, *see* spreader (flax and hemp).

spreader (cotton); (i) lays several laps formed from different kinds of waste taken from bobbins, on lattice of blending machine in process of making blend, or "mixing" of cotton waste; (ii) spreads cotton on feeding apparatus in blowing and scutching room.

spreader (double); *as* for spreader (single), but performs whole series of operations without assistance.

spreader, spreader machine minder (flax and hemp); spreadboard attendant; layer; spreads fibre on one of parallel sections of travelling band which feeds spreading machine; overlaps fibre and thus forming continuous ribbon of fibre.

spreader, line, *as* for spreader (flax and hemp).

spreader (silk); lap former, lapper, lap tenter (silk); converts doved fringes of spun silk into a continuous rope; pieces fringe ends together, and passes them between rollers, which wind them, in form of a lap, round a drum.

spreader (single); covers a long board with pieces of flax or hemp, each piece overlapping piece before it; holds material thus arranged in position on board, while another spreader draws or attenuates it, forming it into one continuous thread, or sliver.

taker-off, wool, *see* breaker-off (wool combing).

taker-out, can, *see* dodger, can.

tenser, hair; carder (machine, hair carding); feeds carding machine with hair which has been opened by opener

(362) *g.v.* and controls carding machine during operation of carding or teasing.

tenser, horse hair, *as* for tenser, hair.

third bobbin and fly frame tenter, *see* rover (cotton).

tumner feeder; lays handfuls of wool on feed plate of opener carding machine in manufacture of felt.

wadding maker; passes cotton waste through willowing and carding machines, which open out fibres to form lap plates; lap rollers in gum with machine and watches gumming and drying process on creper or lay conveyor through drying chamber.

waste pleaser (wadding mill); mends and feeds machine extra card; dirt, hard ends, or other impurities from cotton waste.

weigh box minder (wool); watches weigh box drawing machine, which stops automatically when a certain length of slubbing has been delivered; may guide ends of slubbing into machine and break off slubbing and remove full bobbins at delivery end.

winder, punch, *see* puncher.

wool feeder, wool fly gatherer; feeder (wool); puts wool into carding machine, in manufacture of felt for coats.

woollen feeder, *see* card feeder (wool).

364. STRIPPERS AND GRINDERS; CARD GRINDERS, CARD ROOM JOBBERS.

burr man, burr taker-out; removes burrs and other vegetable material from burr trays of carding machine.

card cleaner (Scotland), *see* fettler.

dresser, card dresser (felt); engine dresser; strips card clothing from rollers of carding machine, removes fluff, etc., from teeth; re-grinds teeth to uniform height, on an emery wheel or on a grindstone.

engine dresser, *see* dresser.

fettler, card fettler; card cleaner (Scotland); removes accumulated waste, short threads, fly, etc., from carding or other machines with a brush or with cleaning waste, sometimes also does minor repairs to machines; *cf.* card stripper.

grinder, back; back jobber; grinds card wire at back of main cylinder on roller-and-clearer carding machine with emery-covered roller; works under direction of another grinder, who is called front grinder *g.v.*

grinder, card; card room grinder; cylinder grinder; roller grinder; grinds wire teeth of card clothing, i.e., leather, webbing, or other material set with wire teeth, and used to cover rollers of carding machine, or of brushes (also made of wire, and used in raising nap of cloth) either by emery-covered or other grinding rollers placed on the machines, or by removing the cards or brushes and grinding them in a separate machine to restore sharpness, which they may have become worn and irregular, and to make them uniform in height; generally also cleans wire teeth, removing waste, fluff, etc., therefrom.

grinder, doffer; operates a grinding roller which corrects irregularities in teeth of doffer (revolving cylinder or vibrating bar with teeth, which strips fibre from teeth of card clothing) of carding machine arising from wear and tear.

grinder, flat; sharpens wire teeth on card clothing covering flat, i.e., metal base, of carding machine, with flat grinding apparatus.

grinder, front; is leading hand of pair of grinders—the other being back grinder—who grinds card wire at front of roller-and-clearer carding machine, with emery-covered roller.

grinder, roller, *see* grinder, card.

grinder, shoddy; a stripper-and-grinder *g.v.* in a cotton waste spinning mill, sometimes called a shoddy mill; *cf.* shoddy grinder (362).

grinder, spare; takes place of any regular card grinder, or stripper-and-grinder, who may be absent through illness, etc.

jobber, back; (i) *see* grinder, back; (ii) (more rarely) attends to small repairs and replacements, oiling, etc., at back, i.e., delivery end, of carding machine.

jobber, card; earthing jobber, card worsted (cotton), woolen (cotton); (i) *see* jobber (cotton); (ii) *see* jobber (woollen and worsted).

jobber, comb; combing jobber; cleans wool from teeth of combs in combing machines.

jobber (cotton); card jobber, carding jobber, card room jobber (cotton); formerly a stripper-and-grinder *g.v.* also required to do other jobs, e.g., small repairs, replacements, oiling, in card room; obsolete.

jobber, front; a front grinder *g.v.* who also attends to small repairs and replacements, oiling, and similar jobs at front, i.e., feeding side, of carding machine.

jobber, scribbling; an under over-looker (366) *g.v.* who assists scribbling engineer (353) in woollen scribbling department; sees that machine is in good working order; adjusts machine and carries out any necessary minor repairs; watches smooth passage of material through machine.

jobber (woollen and worsted); card jobber, carding jobber, card room jobber (woollen and worsted), sliver carding machine (Yorkshire) (Scotland), removes waste or fly from frame and running parts of carding machines; repairs and adjusts machines, and is responsible generally, under the over-looker (363) *g.v.* for their running.

scribbling miller, *as* for grinder, card.

sliver on carding machine (Scotland), *see* jobber (woollen and worsted).

stripper, stripper; (i) *see* stripper, card; (ii) *see* stripper, wool.

stripper, card; stripper, stripper; cleans wire clothing of carding machines, in preparation for grinding; is often also a card grinder, *g.v.*; *cf.* card fettler.

stripper, flat; strips, from carding machine flats, worn card clothing for grinding; *cf.* grinder, flat.

stripper, wool; wool stripper; stripper, stripper; cleans teeth of carding or combing machines of neps, short comings, etc.; if working on a carding machine, *see* card stripper.

stripper-and-grinder; cleans, or strips, wire clothing of carding machines, cylinders, and grinds wire teeth of cards and doffers on surface of these cylinders.

365. SPINNERS AND PIECERS (MULE, RING, CAP, AND FLYER).

assistant driver, assistant shifting mistress; assists shifting mistress *g.v.*

bilby tenter, *see* pieceer bilby; *cf.* bilby tenter (363).

cap frame tenter, *see* spinner, cap.

crawler (woollen and worsted) (i) collects and transfers bobbins from card room, and takes them to mule room; (ii) places full bobbins in position on worsted spinning frame, and removes empty bobbins therefrom.

curler, *cf.* spinner, hair; *cf.* hair curler (368).

dodger, *see* pieceer, cross.

doffer, patent; patent doffing frame spinner; a spinner *g.v.* minding a spinning frame fitted with an automatic doffing arrangement to remove full bobbins.

driver, shifting driver, *see* shifting driver.

end lapper; assists spinner, attaches loose ends of yarn to bobbins.

framer (wool spinning); a spinner *g.v.* who minds one whose wool spinning frame, as distinct from one who minds a frame and a half or a short side frame.

head spinner; *wale head minder*; in leading hand of a pair of spinners, who jointly and one or more spinning machines, engages and pays under spinner and piecer *q.v.*

horsehair curler, *as for spinner, hair*.

improver (wool spinning); a promoted piecer *q.v.* working as a minder or spinner *q.v.* under instruction of another spinner, period of improvement depends upon vacancies at frames then on experience.

joiner, joiner minder; *joiner-spinner*, *partner - minder*, *partner - spinner*; a spinner *q.v.* who joins with another operative in minding a pair, or more, of spinning mules, and shares joint earnings with partner in agreed proportions.

joiner-piecer; one of a pair of piecers *q.v.* who share between them duties of "big" and of "little" piecer, and who divide joint earnings in agreed proportions.

joiner-spinner, *see joiner*.

layer; attaches yarn to bobbins of several spinning frames, and assists in restarting frames after spools have been removed by doffer (359) *q.v.*; when yarn breaks in spinning, lays end of spun yarn over end of that from roving bobbin, so that, in rewinding, ends may be neatly knotted; *cf.* layer (353).

looper (wool); a spinner *q.v.* who tends a frame which spins a special kind of yarn which has a loop spun into one of its strands; feeds machine and watches accurate working of looping mechanism, reporting maladjustments to foreman; ties up broken ends.

middle minder, *see spinner, under*.

minder, *see spinner*.

Mrs. Shifter (slang), *see shifting mistress*.

male head minder, *see head spinner*.

male man, male minder, *see spinner, male*.

partner-minder, partner-spinner, *see joiner*.

patent doffer frame spinner, *see doffer, patent*.

piecer, piecener; *wale piecer*, *spinner's piecer*, *spinning piecer*, *spinning wale piecer*, *spinning wale piecer*; piecer, or joins together, by hand, threads broken in spinning; keeps male clear of waste; sometimes adjusts temper weights, collects full cops of yarn from spinners, and assists spinner *q.v.* usually.

piecer, big; chief assistant to spinner *q.v.*, usually in coarse spinning districts; *as for piecer*; *cf.* little piecer (359).

piecer, billy; billy tender; a piecer *q.v.* on self-acting mules for cotton waste spinning, or in some country districts on spinning mules generally.

piecer, cross; *doffer*; a piecer *q.v.*, additional to big piecer and to little piecer, found only in fine cotton spinning, or in spinning on long mules.

piecer, extra; a supernumerary piecer *q.v.* either supplying place of piecer absent through illness, etc., or employed where local material causes additional work.

piecer, male, *see piecer*.

piecer, ring; ring frame piecer; either a spinner *q.v.* minding a ring spinning frame or an assistant to a ring spinner *q.v.* who mends threads broken in spinning, and sometimes doffs, *see doffer* (359).

piecer, side; chief assistant to spinner *q.v.* usually in centres where fine cotton is spun; *as for piecer*.

piecer, spinner's; spinning piecer, spinning male piecer, *see piecer*.

piecer - minder, piecer - spinner; a piecer *q.v.* who also performs some of duties of spinner or minder *q.v.* in assisting in adjusting spinning machine.

ring frame tender, *see spinner, ring*.

self-actor joiner, *as for joiner*.

self-actor minder, *as for spinner, male*.

shifter (jute spinning); is engaged on one spinning frame carriage consisting of seven or eight bobbins, presses empty bobbins on spinning frame spindles; loops yarn through flyer and leaves frame in running order for spinner *q.v.*; doffs full bobbins and replaces with empty bobbins.

shifter-piecer, shifting-piecer; combines duties of shifter and of piecer *q.v.*

shifting mistress; Mrs. Shifter (slang), driver, shifting driver; is in charge of spinning bobbin shifters, responsible for proper, quick, and systematic shifting of a set of frames.

short side minder (silk spinning); a spinner (spun silk) *q.v.* who attends frame having fewer spindles than usual type.

side minder, *as for spinner, male*; sometimes specifically designated, *e.g.* fly (flyer) side minder.

spinner; minder, yarn spinner; minds spinning machine, which attenuates and twists fibre into yarn; keeps machine supplied with material, controls power drive of machine, and clears faults, *e.g.* knots, tangles, breakages, which interrupt even and continuous production of yarn; sometimes also joins broken threads, adjusts temper weights, superintends taking off of bobbins, etc., usually assisted by piecers *q.v.* or other assistants, whom he/she commonly engages and pays; precise duties vary with type of machine and fibre used; often further distinguished according to fibre spun, *e.g.*, asbestos spinner, cotton spinner, jute spinner; or according to type of machine used, *e.g.*, hand spinner, fly spinner, flyer spinner, mule spinner, ring spinner; or according to method employed, *e.g.*, dry spinner, wet spinner.

spinner, big; senior of two male spinners jointly minding a pair of spinning mules.

spinner, billy; (i) a spinner *q.v.* who minds self-acting mules for cotton waste spinning; sometimes also tends carding machines, and supply his mules with reving; (ii) in certain country districts minds spinning mules generally.

spinner, bump mill (cotton waste); spins candle wick yarn from coarse cotton waste; guides loosely twisted yarn from previous machine through rollers on to spindles, where it is wound after receiving slightly more attenuation; operates special roving frame upon which such yarn is spun.

spinner, cap; cap frame tender; minds a spinning frame in which guides over spindle is in form of a cap, *as for spinner*.

spinner, double; (i) a female spinner *q.v.* who minds two spinning frames. (ii) hand-spins rope yarn with both hands at same time, on two bobbins.

spinner, dry (flax and hemp); minds a frame in which yarn is spun dry, as distinguished from wet spinner *q.v.*

spinner, French; a spinner *q.v.* who minds spinning frame on which degreased wool is spun.

spinner, free; attends machine which spins yarn on to bobbins in form suitable for use in manufacturing of uniforms and safety truses; places on machine bobbins of yarn to be spun; starts and stops machine by pulley lever, mends breakages to yarn, removes bobbins holding spun fusc.

spinner, gill; a spinner *q.v.* who minds a gill spinning frame, guides yarn through gills or combs, to drawing rollers, and thence through flyers on to bobbins.

spinner, hair; hair line spinner; hair curlier; spins or curls horsehair or other hair or fibre into rope, by drawing it from a hank and spinning it to a hank in an upright frame, controls engine which draws frame along rails and rotates hook, strands being curled thereby into a rope; sometimes specifically designated, *e.g.* horse hair spinner.

spinner, hand (mule); hand mule spinner; (i) uses a small spinning mule, turned by hand; spins cops, in domestic manufacture, for hand looms; (ii) operates a spinning mule, traversing carriage of which runs outward by mechanical means, and is pushed inward by hand.

spinner, mule; *wale mule*, *wale minder*; a spinner *q.v.* who minds a pair of spinning mules, arranged facing each other, i.e. spinning machines with intermittent action, which simultaneously draw and twist cotton, wool, etc. into yarn, or thread, and wind it into cops.

spinner, ring; ring frame spinner; ring frame tender; a spinner *q.v.* who minds a spinning frame in which the twist given to the yarn by a revolving bobbin is regulated by the drag of a small metal loop sliding on a ring around the bobbin.

spinner, rope; rope yarn spinner; (i) (machine process) minds spinning frames, usually from two to four, on which rope yarn is spun; *as for spinner*; (ii) (hand process) feeds yarn with fibre which he keeps wrapped round his waist; removes bobbins when full, and replaces them by empty ones.

spinner, self-actor, *as for spinner, male*.

spinner (spun silk); a spinner *q.v.* who minds a spinning frame in which roving, i.e. silk in roving form, is attenuated and twisted; *cf.* spinner (thrown silk) (372).

spinner, safety; (i) (machine process) spins and safety frame, *as for spinner, free*.

spinner, threefold; threefold frame spinner; threefold tender; a spinner *q.v.* who minds a threefold spinning frame, i.e., any continuous acting spinning frame, having twisting apparatus stationary so distinguished from a mangle, *cf.* spinner, mangle.

spinner, under; middle minder; is subordinate of a pair of spinners, who jointly mind one or more spinning machines; works under direction of head spinner *q.v.* and superintends work of two piecers.

spinner, wet (flax or hemp); a spinner *q.v.* who places rove bobbins in creel above spinning machine; guides rove end through water trough and through reach rollers and flyer on to bobbin.

spinner, yarn, *see spinner*.

string maker, *see twine maker*.

throstle tender, *see spinner, throistle*.

twine maker, twine spinner; string maker; a highly skilled operative who twists best quality twines by hand; winds threads round his waist, and pays-out as he twists them.

twister (spun silk); attends frame used also in manufacturing of uniforms and safety truses; places on machine silk or for doubling; puts bobbins on creel and passes end through rollers and so to another bobbin; *cf.* spinner (spun silk) and doubler (355).

wheel minder; a mule spinner *q.v.* in wool spinning department.

365—DOUBLERS AND DOUFLING FRAME TENDERS (NOT SILK).

blind line maker, *as for plaited line maker*.

button bolt twist maker; a twister (cotton) *q.v.* making twist for sewing round button holes.

cable, *see twister, double*.

candlewick maker; watches a machine which makes candle wick from several single yarns, by drawing them together; replaces empty bobbins with full ones in creel; guides end of yarn through machinery; stops machine and joins up broken yarns.

cordier; fancy cord maker, fancy cord spinner, fancy cord twister; draws threads of yarn through holes of a register plate on a cord twisting machine, a kind of doubling machine, and passes them between drawing

rollers; thence attaches them to bobbins, and places them on spindles; controls drive to machine, which rotates spindles and applies twist to yarn; yarn is then wound, in cord form, on to bobbins automatically; cord spinner, see plaited line maker; cf. jack minder (3753).

double-doubler, see **twister**, **double**.

doubler, **double minder**, **frame doubler**; doubling frame *tester*, **doubling spinner**; is responsible for quality and quantity of doubled yarns produced on doubling frames; guides yarns from reel through guides and rollers to winding-on bobbin; may or may not pass yarn under roller in water trough; starts and stops machine as necessary; supervises work of lapper-on (369) g.v. and of creeler (369) g.v. and himself/over self pieces broken threads, or creels bobbins, if necessary; often further distinguished according to type of machine, e.g., ring doubler, ring frame doubler, flyer doubler, or according to process, e.g., dry doubler, wet doubler, or according to nature of product or stage, in manufacture, e.g., asbestos doubler, cop doubler, finishing doubler.

doubler, fancy, see **twister** (cotton).

doubler, finishing; **finisher doubler**; **finisher** (doubling); (i) see **twister** (cotton); (ii) minds a frame on which final twisting or doubling of corded yarns is done; these are doubled twice, like crested cotton or sewing thread.

doubler, single, see **twister**, **single**.

doubler, spare; a doubler g.v. who takes place on a worker as doubling frame about through illness, etc.

doubler (wool), see **twister** (wool).

doubling frame tester, see **doubler**.

doubling hand, (i) see **twister**, **single**; (ii) see **twister**, **double**.

doubling machine minder, see **twister** (wool).

doubling spinner, see **doubler**.

fancy cord maker, **fancy cord spinner**, **fancy cord twister**, see **corder**.

finisher (doubling), see **doubler**, **finishing**.

frame worker (rope); general term for worker mending house machine as which twine and small rope are made; cf. plaited line maker, **twine twister** (3655).

piecer, doubler; **piecer**, or **joiner**, yarn broken in process of doubling; cleans machine, and assists doubler g.v. generally; for duties, cf. **piecer** (3655).

piecer, twiner; **piecer**, or **joiner**, yarn broken in process of twisting; cleans machine, and assists twiner g.v. generally; for duties, cf. **piecer** (3655).

plaited line maker; **cord spinner**; (i) minds cord plaiting machine; passes yarn ends from bobbins through a central guide, switches on power-drive, and attaches plaited cord to overhead winch, which draws and winds up cord as it is made; (ii) (finishing hand) twists and plaits silk and horsehair into convenient lengths for use as fishing lines and casts.

re-doubler, a doubler g.v. who minds a frame on which two or more threads of twofold yarn are twisted together.

self-trimer minder (doubling), see **trimer**.

twine maker; general term for workers engaged in twine manufacture, e.g., yarn warper (rope and twine) (367), twine twister, twine reeler (367) g.v.; sometimes more specifically designated, e.g., shep twine maker.

twiner (cotton), **twiner minder**, **twiner spinner**; **self-actor minder** (doubling); operates machinery which controls working of twisting frame, and adjusts it as required; supervises twiner piecer g.v. and twiner spooler (367) g.v.

twiner (wool), see **twister** (wool).

twister, yarn twister, **twist hand** (cotton); **fancy doubler**, **finisher doubler**, **finishing doubler**; takes several strands of cotton yarn, which have already been doubled, and threads them through guides and to bobbins of twisting frame, where they are twisted together in a direction opposite to that of doubling process; controls power-drive of twisting frame, cleans flanks and tangs, and winds yarn broken in (twine), sometimes specifically designated, according to type of twisting machine, e.g. cap twister (cap covered bobbins), fly twister, flyer twister, ring twister.

twister, double; **cobler**, **double-doubler**; **doubling hand**; minds frame which twists together yarns that have already been doubled once; cf. **single twister**.

twister, doubling (flax or hemp); guides flax or hemp yarns through doubling or twisting frame and through water trough to winding-on spindles.

twister, patent; a twister (cotton) g.v. attending newer, patent, type of twisting frame, having special stopping, etc., devices and rendering supervisory assistance, attends two or more frames.

twister, single; **doubling hand**, **single doubler**; a doubler g.v. who twists, by twisting together, yarns that have not already been doubled; cf. **double twister**.

twister, twine; guides ends of yarn through drawing rollers of a twine twisting machine, and thence to spindles and flyers; adjusts yarn tension device, controls power-drive of machine, mends yarn broken in twisting, and deals filled bobbins assisted by doffer (368) g.v.; cf. **line maker** (3753).

twister (wool), **twister minder**, **twisting frame tester**, **twisting machine minder**; **doubler** (wool), **doubling machine minder** (wool); **twiner** (wool); minds twisting frames, or triners, which twist together two or more woolsen or worsted yarns to strengthen them, or to produce fancy effect; for duties, see **doubler**.

367—WINDERS (NOT SILK), REELERS (NOT SILK), DRAWERS, WARPERS.

baller (cotton yarn or thread), **cotton baller**; yarn baller (cotton), **ball winder** (thread); attaches cotton yarn or thread to cap of baling machine, round which ball is to be wound; starts machine; takes off ball when it is finished.

baller, warp; **warp folder**; twists yarn, as received from mill warping machine, into balls, winding round the hand and tucking in any loose ends; balls are then sent to be spun.

baller, yarn (cotton), see **baller** (cotton yarn or thread).

baller, yarn (woollen); **woollen yarn baller**; minds a balling frame, which winds woollen yarn for hosiery, etc., into balls; guides yarn through frame to flyer and spindle, which wind up yarn; frame stops automatically when balls reach required weight.

ball maker-up, **cotton**; a section beamer g.v. who, after winding, removes yarn and makes it up into ball or ball warp.

balloonier, **balloon minder**; a warper g.v. who winds threads on a drum, called a balloon.

beamer; **beaming machine minder**, **beam warper**, **beam winder**, **notchbeamer** (silk), **warper-doff**, **warp folder**, **warping machine minder**, **warping minder**; minds beaming machine, which winds warp yarns from bobbins on to reeling beams, i.e. larger bobbins, in preparation for warp dressing process.

from one set of beams, or from sectional or chain warps, on to weaver's beam, in preparation for weaving or for lace making; places

one or more beams in supports of machine; guides each separate thread through guide eyes, or through a comb or reed, to keep it in position while it is being wound on to beam, sets machine in motion; stops machine when beams are full, and removes full beams; sometimes also keeps creels attached to machine supplied with bobbins full of yarn.

beamer, chain; a beamer g.v. who winds yarn in chain form (like a loose rope) on to beams.

beamer, lace; **machine lace beamer**, or **for beamer**; cf. **warper** (lace).

beamer, Scotch; **Scotch dresser**; winds coloured yarns on to beams, which are afterwards placed on reeds for dry lapping machine and combined together, or, if united, on weaver's beam.

beamer, section; places bobbins of yarn in frame; guides yarn to circular blocks of wood called cheeses, very narrow beams, round which it is wound, and then intended for running off on to weaver's beam.

beamer, warp, see **beamer**.

beaming machine minder, see **beamer**.

beam setter; **draw lifter**; places beams, wooden rollers with tooth flanged ends, upon a truck fitted with an elevator, which raises them and swings them into position on beaming machine.

bit maker, see **winder**, **bit** (carpets).

bobbiner, **bobbin machine attendant**, **bobbin machine minder**, see **winder**.

carpet filler; supervises automatic winding of yarn intended for carpet weaving, from bobbins on to a dress.

chainier, see **warper**, **ball**.

chain maker, see **linker**.

cheeser, **wool cheeser**, see **winder**, **cheese**.

clearer, **clearing frame tester**; **clearer winder**, **clearing frame winder**, **clear winder**; places bobbins of doubled cotton yarn on spindle of clearing frame or clearing machine, which removes bad ends, thick, soft places, dirty or badly made knots, or other imperfections from yarn, in preparation for gassing; cf. **gasser** (yarn) (368); guides yarn through vertical slots or between adjustable brackets to winding-on spindles, starts machine, and joins broken ends of yarn, as required, with mechanical yarn knitter or splicer; takes baskets of full bobbins from clearing frame to weighing machine; sometimes specifically designated, e.g. **warp clearer**.

cop filler, **copper**; minds a copping machine, which winds yarn, thread or twine in cops, cones, cylindrical or cheese-shaped masses, formed upon a paper tube or cardboard centre, places cardboard centres on spindles, and removes cops when filled.

copper, **cop yarn**, or **cop filler**.

cotton filer (carpets); a winder g.v. winding cotton warp yarn for use in carpet manufacture.

cotton plucker, as for winder.

dresser, **Scotch**, see **beamer**, **Scotch dresser** (not silk), see **winder**, **cheese**.

fur filler (carpets); a cop winder g.v. winding sensitive fur, for use in weaving chenille cloth.

hank buncher (not wool warshouses); (i) see **winder**, **hank**; (ii) see **reeler** (not silk).

hanker; (i) see **reeler**; (ii) see **winder**, **hank**.

lifter, **beam**, see **beam setter**.

linker; **chain maker**; watches proper working of a linking machine, which draws long lengths of warp yarns from bobbins set in a bank, or frame, and automatically links it into a chain; yarn is then wound on to weaver's beam, or sent out as chain warp; guides yarn from bobbins into machine, joins broken threads.

pattern dresser (winding); a warp dresser g.v. who specializes on pattern warping; arranges and alters bobbins of different coloured yarn

winder, *slip*; (i) (tape trade) winds tape, by machinery, in lengths of 2½ yds, into a hank, ready for bleachers; (ii) places skein (or slip) of yarn on a skeleton reel (swift) of winding frame, and winds it therefrom on to bobbins.

winder, *spool*; *spooler*, *twist reeler*; a winder *q.v.* who winds a machine which winds yarn or thread on to spools.

winder, *thread*; (thread spooler); (i) a winder *q.v.* who winds thread on small reels or spools by hand or by machine; (ii) adjusts layers of thread, cuts and locks end of thread in neck of spool, and polishes surface of filled spool; (iii) winds hanks of thread into skeins, hanks, etc.

winder, *throstle*; a winder *q.v.* who operates machine which winds yarn from throstle, or flyer, frame bobbins, spinning or doubling, on to larger bobbins.

winder (twine), *see* skinner (twine).

winder, *warp*; a winder *q.v.* who attends a draw-winding frame, which winds yarn from hanks on to large spools, in readiness for warper *q.v.*; places hanks on swift (skeleton reel) or type, and guides yarn on through machine to winding spools.

winder, *welt*; *wolf winder*; a winder *q.v.* who winds welt yarn into cops, or other form convenient for insertion in weaving shuttle of loom; sometimes a specialist in thread, according to description of welt, *s.g.* black welt winder, white welt winder.

winder, *weight*; a winder *q.v.* who winds a machine on which each spindle stops automatically when a certain weight of yarn has been wound.

winder, *wool*, *see* winder, *welt*.

winder, *worsted*, *see* worsted filer (carpets).

winder-on; *re-banner*; operates a machine which unwinds dyed yarn from dyer's beam, and winds it on to weaver's beam.

winding machine minder, *see* winder (not talk).

worsted filer (carpets); *worsted sizer*; a winder *q.v.* engaged in winding worsted yarns.

368.—DRAWERS-IN AND TWISTERS-IN

drawer, *drawer-in*, *drawer-in* of heads, *warp drawer-in*, drawing frame attendant, *enterer*, *gutter-in*, *gear drawer*, *harness drawer*, *hender*, *in-taker*; *looser*, *reeler*, *reader-in*, *slayer*, *slayer*, *taker-in*, *warp drawer* (unusual), *warp loomer*, *warp slayer*, *warp taker-in*; attaches weaving beams to drawing-in frame, and draws each warp yarn, separately, with a hook, through eye (or loop) of lead, and through dent of reed in loom.

loomer, *warp loomer*; *see* drawer; sometimes also does work of twister *q.v.*

loomer and twister; combines work of drawer *q.v.* and twister *q.v.*

loom machine operator; *loomer* or *drawer* *q.v.* operating a machine for mechanically threading warp threads through lead; lays warp on machine in level sheet and moves levers causing machine to pick-out threads and to lay them through heads.

reader, *reader-in*, *see* drawer.

slayer, *slayer*, *warp slayer*, *see* drawer.

springer, *head springer* (cotton); assists machine minder in drawing-in room of weaving departments; does work (or part of work) elsewhere done by drawing frame attendant *q.v.*

taker-in, *warp taker-in*, *see* drawer.

tier-in, *tier-on*, *warp tier-in*; a twister *q.v.* who ties ends of new warp to those of old warp, when pattern is unchanged.

twirler, *see* twister.

twister, *warp twister*, *twister-in*, *twister-on*, *twisterer*; *twister*, *warp dresser* (unusual); (i) (*head process*) selects one thread of old warp and corresponding thread of new warp, and twists them together between thumb and forefinger; (ii) (*machine process*) clamps old and new warps in two parallel sheets, the old uppermost; controls mechanism of twisting machine which picks up individual threads from each sheet of warp and twists them together.

twister, *patent*; a twister (machine process) *q.v.* who tends a patent twisting machine composed of reeds, etc.; places warp in position in machine and controls machine by levers.

twister, *warp*; (i) *see* twister; (ii) twists, generally, by machine, two threads of different colours; or twists, on warps, single threads of yarn into two-ply or three-ply strands.

twister-and-drawer; combines occupation of twister and of drawer *q.v.*, usually in a small mill.

warp dresser; (i) (unusual) *see* drawer; (ii) (unusual) *see* twister; *cf.* warp dresser (367) and (369).

369.—SIZERS, SLANERS, AND TAPERS.

assistant dresser; assists warp dresser *q.v.* on waste dressing machine.

dresser, *Bradford*; coloured dresser (wool); Yorkshire dresser; guides threads from separate half's (*see* baler (367)) of each coloured yarn, in correct sequence to pair of grooved rollers on warped dressing machine, which arranges threads in correct position for winding on beams.

dresser, *warp dresser* (not wool); winds a warp-dressing machine, which dresses or prepares warp threads for warp beam in readiness for weaving; may be either (i) a Yorkshire dresser, or (ii) one who prepares delicate and fine yarns by passing them through sizers or slaying frame; or (iii) an ordinary sizer or slasher *q.v.*; sometimes specifically designated, *s.g.* cotton warp dresser.

dresser, *yarn*; *storcker*; minds a yarn-dressing machine, which starches yarn for use in weaving; guides yarn ends through machine and steadily to stop machine in event of irregular passage of yarn during dressing.

dresser, *Yorkshire*, *see* dresser, *Bradford*.

looser; crosses warp threads, after weaving, alternately above and below lease reeds at one end of warp and in groups at the other, to keep them in position during heating and warping.

size mixer, *warp size mixer*; dissolves ingredients of size in water, and boils solution in cylinders; regulates heat and steam pressure of cylinders, and solution strength of mixtures.

sizer, *yarn sizer*, *sizing machine minder*; *slasher*, *slasher-sizer*, *taper*, *warp slasher*; (i) places beams of yarn in position at back of sizing machine; gathers thread ends into sheet-like form and guides them through rough rollers; buyers rollers into troughs of hot size, and starts machine; guides yarn from size trough on to drying cylinders; (ii) (*except trade*) passes dyed yarn through trough containing size, and through steam-heated drying cylinders or pipes, and attaches it to a beam; controls mechanism which causes beam to revolve and wind yarn round itself; (iii) dips yarn in form of hanks, etc., into vats of sizing solution, and squeezes out between mangling rollers of winches; sometimes specifically

designated, according to form in which yarn is made up, *s.g.* cop sizer, hank sizer, skein sizer, tape sizer, warp sizer.

slasher, *warp slasher*, *see* sizer.

slasher, *dry*, *see* taper, *dry*.

slasher-sizer, *see* sizer.

starcher, *see* dresser.

taper; (i) *see* taper, *dry*; (ii) *see* sizer.

taper, *dry*; *dry slasher*, *taper*, *winder-on*; minds dry taping machine, chiefly used for coloured cotton goods, which takes threads, wound from several other beams, and winds them on to weaver's beam to make one complete warp; gathers threads from beams into one sheet of ends and places on weaver's beam; starts and stops winding mechanism as necessary.

taper's finisher; attends to drying and beaming of sized yarn on sizing machine, under direction of taper or sizer *q.v.*

warp applier; minds a warp winding frame run in conjunction with drying cylinder of sizing machine; yarn, after being wound on to warp bobbins, is beamed in usual way.

warp stretcher; minds a hank (or skein) stretching machine which, by sizes stretching yarn, also opens out stinky patches from sizing; places hanks or skeins over stretching rollers, switches on power-drive, and removes hanks or skeins on completion of operation.

winder-on, *see* taper, *dry*.

370.—WEAVERS.

alabar loom worker, *as for* weaver.

hand maker, *hand maker*; minds a narrow, quick-speed loom for weaving hand and webbing; for processes, *cf.* weaver.

hit maker (carpets); a power loom weaver *q.v.* who minds a loom on which waste carpets, having no design, are woven, from bits of yarn left over from other goods.

hit maker (carpets) *designer*; *cf.* bit maker (carpets) (367).

hraid speeder; a weaver *q.v.* minding two, three, or four looms on which hraid, and other similar narrow woven fabrics, are woven.

gold and/or silver; a gold and/or silver weaver *q.v.* who weaves gold or silver cord.

glimper, *glimp maker*, *glimp spinner*; minds a narrow, quick-speed loom, an occasional handloom, often with a wire or coarse cord running through it; places bobbins of yarn and of wire in correct sequence in frames, and guides and attaches warp and wire to a feed which conducts them into machine; controls power-drive of machine; sometimes specifically designated, *s.g.* hraid glimper.

hair slave maker; *hair slave weaver*; a hair weaver on hand loom or power loom; *q.v.* weaving material for hair slave.

hanger maker, *woven hanger maker*; a power loom weaver *q.v.* who weaves a narrow web, often having the name of tailor in woven, as an advertisement, intended to be used in making loops for hanging up coats.

helper; a spare weaver *q.v.* who goes from loom to loom helping other weavers in case of sickness, disability, etc., engaged on Northrop looms, hings web, fills batteries and doffs bobbins, *cf.* helper (369), *tentor* (weaving).

jacquard frame tender; a tender *q.v.* minding jacquard weaver *q.v.* loom tender, *loft tender*, *power loom tender*; (i) *see* tender; (ii) *see* weaver, *power loom*.

orris spinner, *orris weaver* (gold and/or silver); a gold and/or silver weaver *q.v.* weaving a novelty of gold or silver lace or hraid called orris.

rag maker; *rag weaver*; a power loom weaver *q.v.* who weaves rugs; sometimes works on a hand loom, *see* hand loom weaver; *cf.* rag maker (368).

server (hair weaving); assists hair weaver *q.v.* by putting hair on to shuttle for drawing through warp. tender (weaving); *loom tender*, *loom tender*, *power loom tender*, *weaver's helper*, *weaver's tender*, *weaver's assistant*, *weaver's piler*, *weaver's helper*, *weaver's tender*, *weaver's assistant* *q.v.* by cleaning looms and replacing empty warp bobbins with full ones; *looms weaving*.

tinzel lace maker; *see* weaver, gold and/or silver.

twarp loom knitter; attends a horizontal knitting machine, i.e. warp loom, for knitting artificial silk scarves, etc., having all its threads on warp beam, and having no guide; guides thread ends through machine, starts-up machine and keeps it going, repairing broken threads when necessary; *cf.* warp loom knitter (368).

weaver, loom weaver; forms cloth or other textile material by interlacing, entwining, etc., a series of parallel threads, or warps, by a crossing thread or weft, which moves backwards and forwards across the warp threads on a loom, which may be either a hand loom or power-driven; *see* hand loom weaver, power loom weaver; often further distinguished according to material used *q.v.* alpaca, jute, asbestos weaver; or according to type of loom, *q.v.* box loom, dobby, Northrops weaver; or according to class of article produced *q.v.* braid, dress goods, blankets, hosiery weaver.

weaver, automatic loom; a power loom weaver *q.v.* who minds a number of looms which replace their own weft.

weaver, carpet (hand loom), *see* weaver, hand loom (carpets).

weaver, carriage trimming, *as for* weaver, coach lace, except that trimmings are usually over 14 inches wide.

weaver, chenille setting; setting weaver; sets chenille fur into carpet on loom; lightly combs up each row of chenille fur, by hand, so that it beds up against previous row with which it must be matched.

weaver, chenille weft; *see* weaver; a power loom weaver *q.v.* who makes chenille fur to be used as weft (pile) for chenille carpets; works from a design-paper plotted into squares, showing order and colour of yarn, inserted by hand across loom, whilst carrying required colour to match square or squares of design-paper; stops loom, changes shuttle, and re-starts loom.

weaver, coach lace; *see* weaver, carriage trimming; a power loom weaver *q.v.* who weaves bands of trimming, usually under 1 inch in width, for railway carriages, motor cars, and carriages, in silk, cotton, or worsted, using a small-power loom with worm shaft and a rearward attachment.

weaver, cocoa fibre mat; *coir* mat weaver; *see* weaver (cocoa fibre, *coir*); weaves *coir* mat fabric, usually on a hand loom.

weaver, embroidery; a hand or power loom weaver *q.v.* who minds a weaving loom on which ornamental fabric, ribbons, etc., are woven with a plain or coloured repetition pattern, to imitate hand embroidery.

weaver, felt; a power loom weaver *q.v.* who minds a loom, wearing idles for use in paper-matting or other machinery; weaver may be from ten to forty feet in width; *cf.* balter (375).

weaver, gold and/or silver; gold and/or silver lace or braid weaver; *finzel* lace maker; (i) a power loom weaver *q.v.* tending a machine in which gold, silver, or plated tinzel wire or thread is woven with cotton or silk to form braid, lace or cloth; (ii) a hand loom weaver *q.v.* working with gold, silver or plated tinzel thread or wire in shuttle to weave braid, lace or cloth.

weaver, hair; hair cloth weaver; weaves hair cloth, having a warp of cotton or linen, and a weft of horse or other hair; may be either a hand loom or a power loom weaver *q.v.*

weaver, hair seating, *as for* weaver, hair.

weaver, hair sleeve, *see* hair sleeve maker.

weaver, halter; a hand loom weaver *q.v.* who weaves special webbing for halter or headstalls in one piece; *cf.* halter maker (368).

weaver, hand loom; stretches warp threads, in proper order, across a frame, which is then placed in loom, process levers, usually worked by treadles, which cause certain warp threads to rise; pushes or jerks shuttle containing weft to and fro through openings or sheds thus made in warp; beats each row of weft close up against previous row, by pulling up sley and reed; winds cloth, as it is completed, on a beam roller.

weaver, hand loom (carpets); *carpet* weaver (hand loom); stretches warp threads between two beam rollers; inserts and knots pile, according to pattern, tuft by tuft, sound warp threads; inserts weft at intervals, varying with type of carpet; beats down weft and pile with large comb beater.

weaver, harden; harding weaver; a power loom weaver *q.v.* who weaves harden, a cloth woven from hard or tow yarn (re-spun flax or hemp waste).

weaver, harness loom weaver; *see* weaver, jacquard.

weaver, headstall, *as for* weaver, halter.

weaver, horse hair; horse hair seating weaver, *as for* weaver, hair.

weaver, hose pipe; a power loom weaver *q.v.* who minds a special loom for weaving canvas hose pipe.

weaver, inkle; a power loom weaver *q.v.* who weaves inkle, i.e. linen tape or braid.

weaver, jacquard; harness weaver; harness loom weaver; a power loom weaver *q.v.* who weaves on a loom having a jacquard attachment, for figured or fancy fabrics.

weaver, mat (cocoa fibre, *coir*), *see* weaver, *coir* (cocoa fibre mat).

weaver, patterns and taggings, *see* weaver, coach lace.

weaver, pattern; range weaver; a hand loom weaver *q.v.* who weaves patterns, lengths of cloth sufficient for a garment, sometimes to a special or new design; usually done on a hand loom even where similar material, in bulk, would only be woven on a power loom.

weaver, power loom; power weaver; loom tender, loom tender, power loom tender; minds one or more power-driven weaving looms, which usually stop automatically when a thread breaks; starts loom by means of levers, and restarts it after stoppages; keeps warp shuttles and, on power looms, picks warp bobbins supplied with yarn; mends breakages to warp or to weft threads by switching-in, and repairs, to overlooker (weaving) (365) *q.v.*, accidents to loom.

weaver, range; *see* weaver, pattern.

weaver, rug, *see* rug maker.

weaver, scroll; a power loom weaver *q.v.* who weaves scroll trimming, a kind of gimp.

weaver, setting, *see* weaver, chenille setting.

weaver, tassel; (i) covers wooden wheel with threads of cotton, silk, etc., or with a tassar band, using a weaving or plaiting machine; sets bobbins on spindles in machine; places moulds in holder; controls mechanism by levers; (ii) a power loom weaver *q.v.* who weaves material to be made up into tassel or ball fringe.

weaver, tinzel; a power loom weaver *q.v.* who minds a loom, or looms, weaving tinzel in form of braid.

weaver, twill; weaves twill carpets, a ribbed weave produced by weft passing over two or more warp threads at a time.

weaver, weft, *see* weaver, chenille weft.

weaver's assistant, weaver's filler, weaver's helper, weaver's tender, *see* balter.

371.—SILK WINDERS, CLEANERS, AND DOUBLERS.

balter, twist; warp balter; makes warp on a circular frame, and winds it on in ball form for convenience in handling; places yarn bobbins in creel, guides each through frame and attaches to balling device; starts and stops frame by hand lever, etc.

bottle bobbin worker; adds cone or bottle bobbin, as filled during silk winding and replaces with empty cone; joins broken threads; *cf.* doiler (367).

cheeser; cheesing frame mender; cheesing frame tender; a winder *q.v.* who mends a winding frame which winds silk on conical or cheese-shaped bobbins.

cleaner, cleaner (throwing); cleaner piece, drawer (mill department); winds raw silk from bobbins, through cleaning or clearing knives, on to fresh bobbins, to remove dirt, lumps, etc.; clears obstructive, tangled threads, etc., from knives, joins broken threads and re-starts machine.

copper, topping frame mender, topping frame tender; tube machinist; a winder *q.v.* who mends a machine in which silk yarn is wound in conical form or on to small paper tube.

doubler, frame, *see* doubler (spun silk).

doubler (gun silk); minds a doubling machine or frame in which two or more threads of raw silk, in gummy state, are wound together, on a bobbin, with no twist; guides thread ends through fallers, etc., to winding-cones; keeps machine running; guides, i.e., adds broken threads, adds fall bobbins and replaces with empty.

doubler (spun silk); doubler piece, frame doubler, spooler (spun silk doubling), tender (doubling), winder (spun silk doubling), *see* doubler (gun silk).

doubler machine or frame which twists two or more yards of spun silk together to form a heavier and stronger yarn; guides yarn ends through machine to winding-cones; breaks broken threads, adds fall bobbins; sometimes, specifically designated according to type of machine, *q.v.*

double doubler, trap doubler.

doubler (thrown silk); doubler piece, doubler tender; minds a doubling machine or frame in which two or more threads of thrown silk are wound together, on a bobbin, with little or no twist.

doubler of shute; a doubler (spun silk) *q.v.* who doubles spun silk weft for use in weaving.

drawer (mill department), *see* cleaner (throwing).

drummer, silk drummer; a winder *q.v.* winding silk threads, for lace or on a drum.

filler, braid; a winder *q.v.* attending machine winding silk threads from bobbins to quills for braid weaving; may wind single, two or more threads into each quill; may attend machine having automatic stops operating when specific amounts, *e.g.* 100 yards, are wound.

filler, hand; a filler or winder *q.v.* using hand-controlled winding frame.

filler (silk rearing), *see* winder; sometimes specifically designated, *e.g.*, quill filler.

filler of shute; a winder *q.v.* of silk weft.

lazer, reel; laces or threads ends of silk strands into laced through guides to bobbin on winding machine.

lazer, silk lazer; inserts fork-like hand tool between strands of skin and pushes through a lace of spun silk, laces strands and forwards to keep strands in position in skin for dyeing or re-winding.

piecer, cleaner, *see* cleaner (throwing).

knitter, gaa mantle; attends automatic seamless machine which knits tubular fabric for use in gaa mantle making; tends machine with bobbins, guides yarn from bobbins to needles, mends broken threads, starts and stops machine as necessary.

knitter, girawold; see girawold hand. knitter, lia; (i) a frame hand g.v. who minds a small circular frame on which ties are knitted; for duties, cf. circular hand; (ii) tends a straight bar frame, on which ties are knitted.

knitter, frame work knitter, machine knitter, knitting frame worker, knitting machine worker, see frame hand; sometimes specifically designated, e.g. stocking machine knitter, woollen knitter.

latch needle hand; attends to a set of four latch needle machines, which knit circular (tubular) web fabric for knitted underwear; guides yarn ends from bobbins, and threads yarn through latch self-setting knitting needles; keeps machines running, mends breakage to threads.

lagger (nose); a Cotton's patent frame hand g.v. engaged in knitting hose legs.

linker (hoesery); joiner, runner-off; operates linking machine, which joins two portions of other knitted goods; places two fabrics to be joined, side by side and loop by loop on a circle of needle points which travel slowly round and finally pass into stitching zone where loops are connected by chain stitching.

loop worker, loop wheel machine hand, loop wheel machine worker, loop wheel worker; a circular hand g.v. operating a particular kind of machine, called a loop machine, which knits tubular knitted fabric for underwear; sets up yarn in machine, keeps machine going, and joins broken threads.

machine hand, automatic seamless; seamless hand (plain); seamless machine hand, seamless machine minder; attends automatic machine for making seamless hose and half hose; guides yarn from bobbins to needles, and controls power driving machine; this machine produces plain hose, complete with heels and toes, which only require closing and finishing off.

machinist, George (hoesery); attends "George" type machine; hose knitting machine, not commonly used, cf. seamless machine hand.

machinist, stocking machinist, knitting machinist, see frame hand.

Maxine hand (hoesery); an automatic seamless machine hand g.v. who attends a Maxine frame which knits seamless stockings.

patent hand, see rib top maker, patent.

rib top hand, rib top maker, rib top worker; circular rib top maker; attends rib top machine, which knits ribbed tubular fabric for cutting up and attaching to legs of seamless half hose; guides yarn from bobbins to knitting needles, sets machine running, mends broken yarn.

rib top maker, patent; patent hand; a Cotton's patent frame hand g.v. engaged on a Cotton's frame adapted to knit rib tops for hose.

rotary fingerer (gloves); a rotary frame hand g.v. working at a glove finger knitting machine.

rotary hand, see frame hand, rotary. runner-off (hoesery), see linker (hoesery).

runner-on (hoesery); hoesery transferer, hoesery worker; threads complete row (or whole) of stitches of knitted fabric upon needles or upon metal points of a loose bar, by placing fabric upon the points, stitch by stitch, at a distance of three or four rows from the end; starts and ends knitting from end to bar; places loose bar in knitting machine and transfers stitches on to needles in machine.

seamless hand (plain), see machine hand, automatic seamless.

seamless hand (ribbed), see XL hand. seamless machine hand, seamless machine minder; (i) a frame machine hand, automatic seamless; (ii) see XL hand.

sox hand (hoesery); general term for workers engaged on sock knitting frames, e.g., Cotton's patent frame hand, automatic seamless machine hand, XL hand g.v.

stockinger, as for sox hand.

warp hand (knitted fabrics), as for warp hand (sock) (376) g.v., knitting artificial silk fabrics, etc. XL hand; seamless hand (ribbed), seamless machine hand, seamless machine minder; attends automatic hose machines, known as XL machines, which produce seamless ribbed hose; threads yarn through guides to knitting needles from bobbins, and keeps machine running by mending broken yarn; inserts new needles when necessary.

375.—HAND KNITTERS.

coat maker (hand knitted coats); a hand frame work knitter g.v. who makes knitted coats; cf. coat maker (machine knitted coats) (374).

crochet worker; crocheter worker; (i) makes shawls, d'oyers, lace, trimming, etc., by looping wool, silk or cotton thread with a hooked (crochet) needle by hand, according to pattern; (ii) operates a crocheting machine to make lace for hoesery garments, etc., as for hand frame worker.

hand frame work knitter, hand frame worker, hand knitting machine worker; hand knitter, stockinger; sets up yarn in hand frame, by inserting bobbins and threading thread through guide, and operates it by turning a handle, or with treadles.

hand knitter; (i) knits by hand; (ii) see hand frame work knitter. hand splicer; inserts extra bobbin into machine, so that knitting is strengthened at point where splice is required.

jumper knitter; knits ladies' jumpers by hand, or on a hand frame stockinger, see hand frame work knitter.

376.—LACE MAKING MACHINISTS AND WARP HANDS.

hack girl (Swiss embroidery), hack and girl; shuttle girl; crafts shuttle and mends broken threads at back of Swiss embroidery machine, either pantograph or jacquard frame, under direction of front girl (Swiss embroidery) g.v.

fourteen knitter, see overlocker.

embroiderer, machine (lace); general term covering machine lace embroidery makers, e.g., Bonnas machinist, corseily hand (407), pantographer g.v.

front girl (Swiss embroidery); Swiss lace machinist (an embroidery maker); repairs broken threads at front of machine, and is responsible for work done by machine under direction of pantographer g.v.; directs hack girl (Swiss embroidery) g.v. on jacquard frame, has similar hand skilled duties; mends frame under control of shop foreman.

lace embroidery maker; general term covering machine embroiderer (lace) and hand lace workers (377) g.v. lace machine tender; general term for lacemaking machinist; not in general use; includes all terms under this code No. 376.

lace machinist, Swiss; (i) (on jacquard frame), see front girl (Swiss embroidery) (ii) mends Swiss embroidery, sold in tambour for the purpose, on sewing machine; usually done by repairer (embroidery) (379) g.v.

lace maker, lace worker, see twist hand; sometimes specifically designated, according to kind of lace made, e.g. blind lace maker, blind lace worker, curtain lace maker,

fancy lace maker, fancy lace worker, plain net lace maker, pusher (blind) lace maker, tordion lace maker; or according to type of machine used, e.g. Lever lace maker.

lace maker, tordion; (i) a twist hand g.v. who works on a Lever's machine adapted to produce imitation tordion lace; real tordion lace being made by a hand process, cf. tordion lace maker (377); (ii) tends a Barmes machine, which produces lace known as real imitation tordion.

lace maker, warp (lace), see warp hand.

laceman, see twist hand. overlocker, overlocking machinist; cardon knitter; stitches round scalloped edge of finish lace curtain with overlocking machine.

pantographer; follows point by point, with a flexible metal arm, an enlarged vertical diagram placed at end of pantograph machine, to embroider designs on net or lace; cf. pantographer (407); supervises back and front girls g.v.

shuttle girl, see hack girl (Swiss embroidery).

spotted net maker; a twist hand g.v. in charge of a plain net machine fitted with a jacquard attachment for making spotted net.

spring maker, spring twister, spring worker; a twist hand g.v. who operates a machine, generally a Lever machine, which makes spring lace; cf. spring maker (band worker) (377).

tattooing maker, tattooing worker; a warp hand g.v. whose machine is adapted to make tattooing, a kind of knitted lace; cf. tattooing worker (band worker) (378).

twist hand, twister; lace maker, lace man, lace worker; tends lace machine, Lever's, plain net or curtain, and mends or pieces threads, starts and stops machine, or by using aprigs for broken threads as net is made, and joins them up, replaces empty bobbins by full ones, etc.; sometimes specifically designated, e.g. fancy lace worker.

warp and (lace); warp lace maker; minds a warp lace machine, guiding threads from bobbins to needles, watching knitting, and stopping machine, when necessary, to join broken threads; sometimes specifically designated, e.g. silk warp hand.

377.—HAND LACE WORKERS.

Hendon maker, Hendon worker; a pillow lace maker g.v. who makes, on a gillow, springs or aprigs of lace and joins them by bars of other lace work, Hendon gillows, or attaches them by hand needs work to a plain net ground (see ground applique). for lace maker, lace worker; makes lace by hand on a pillow; uses pins in pillow or cushion, and works design, which is drawn on strip of card attached to pillow, by manipulation of twisting thread, or by using aprigs; needles on a parchment pattern, and separately manipulated bobbins of thread; sometimes specifically designated, e.g. blind lace maker, blind lace worker, pillow lace maker, point lace maker, point lace worker, tordion lace maker.

lace maker, tambour; tambour worker, tambour worker; embroiders on lace net which is stretched over a tambour frame.

spring maker, spring worker; a pillow lace maker g.v. who makes springs and aprigs of lacework to be subsequently joined up to make other lace or attached to plain net ground (see ground applique) (376).

tambour maker, tambour worker, see lace maker, tambour.

tattooing maker, tattooing worker; makes tattooing (a kind of twisted lace) by hand, using a shuttle, in which the thread is wound, to make loops and knot them according to design; cf. tattooing maker (machine worker) (376).

378.—FELT FORMERS, BATTERS, AND HARDENERS (NOT HATS).

batter, hat engine attendant, felt bather; attends hat machine, which takes silver, fibre in form of ropes or ribbons, from scribbling machine, and places one layer on another until required thickness has been obtained; material is then wound on rollers and transferred to hardening machine.

felt former, felt maker, felt worker; general terms for any worker engaged in felt manufacture, including the workers under this code No. 378, also miller (384).

felt hardener tenter; felt hardener, hardener; places laps, i.e. soft loose masses of wool or hair, on flat hardener machine, which hardens and felts them by steaming.

hair felt maker, hair felt sheet maker; a hardener *q.v.* using hair only for felting.

hardener, felt hardener; (i) see flat hardener tenter; (ii) see roller hardener tenter.

roller hardener tenter; felt hardener, hardener; places laps, i.e. loose masses of wool or hair, in automatic feed of roller hardening machine, which hardens and felts them, by steaming, and then pressing between oscillating rollers.

379.—LOOKERS & EXAMINERS; BURLERS & MENDERS.

burler, piece burler, dressed cloth burler; knitter, knitter, nipper, piece knipper, piece knitter, piece knitter (woolens and worsted), piece trimmer, spicer, stamper, stamper, straw fibres, burs, etc., from back of cloth; draws out thick threads of warp and weft, and opens knots by cutting or loosening them by hand with needle or burning iron; sometimes also looks over face of cloth, and pushes loose ends and curls to back.

burler-and-mender; curer, serrapper; combines duties of burler *q.v.* and of mender *q.v.*

coat finisher (knitted coats); a finisher (hosiery garments) *q.v.* who specializes in finishing knitted coats, coat fitter (knitted coats); fits coats upon dummies, to examine quality of work, and fit; marks, pins and/or cuts coat, to correct minor, and repairs with needle and thread or returns coat to dress maker *q.v.*

curer, see burler-and-mender.

drawer, cloth; fine drawers; mends rents and tears requiring more delicate work than can be done by mender *q.v.*; may draw threads in around tear and remove threads into the cloth with needle, exactly following the weave pattern.

dresser, cloth dresser; see knot clipper (dyer's).

dresser, pattern (mending); stitcher (patterns); corrects errors in pattern of coloured goods, without sewing threads and inserting sound threads of desired colour with needle; cf. pattern dresser (winding) (337), pattern dresser (making-up) (943), ender (velvet, fustian, etc.), velvet ender; mender (velvet, fustian, etc.), velvet mender, velvet mender; darn by hand, sits in ground of velvet, fustian, or other similar material, caused by pile-cutting knife.

examiner, cloth; piece examiner, see looker (cloth).

examiner, hosiery; examines finished hosiery goods for any faults in knitting, finishing or trimming; marks faults and returns garment or piece for repair; reports apparent adjustments required in machine.

examiner, lace; as for examiner (not). examiner, net; examines bleached or unbleached net over black surface to detect faults, broken or missing

threads; passes net in to be mended, where necessary, to white mender or to brown mender *q.v.*

examiner, yarn; (i) examines samples of yarn received from spinners to detect thinness of thread, faulty placement, or surface markings; notes defects and returns breaking strains of yarn (ii) see yarn center.

finisher, carpet; general term covering knot clipper, picker, fringer (417) *q.v.* and other workers who receive carpet from shearing and brushing machine, examine for defects, clip out knots, make gapes in pile with needle and wool, sew on fringe to rug, etc.; in some factories one skilled worker performs all these operations.

finisher (hosiery garments); inspects knitted garments, remedies minor defects with needle and thread, clips off loose threads, etc., and sews on buttons, tags and bells.

fitter in ladies' room (knitted goods), as for coat fitter.

grafter (lace finishing); a white mender *q.v.* who works a patch of net into a damaged place, to cover defect.

grainer; examines printed cloth for defective work, to guard against subsequent claims for faulty printing.

inspector, cloth, see looker (cloth).

knipper, piece, see burler.

knot clipper (carpets); a carpet finisher *q.v.* who cuts, with scissors, knots appearing on surface of finished carpets, caused by knotting together of yarns which have broken in weave; sometimes also fills in gaps found in pile.

knot clipper (dyer's); cloth dresser, dresser; operates a machine like a shearing machine, but with knives more closely set, which removes irregularities from surface of cloth before dyeing.

knitter, piece knitter, see burler.

looker, piece (woolens and worsted), see burler.

looker, see burler.

looker (cloth); looker-over, cloth looker, cut looker, piece looker, piece looker-over; cloth examiner, cloth inspector, cloth overlooker, cloth passer, overlooker, passer, percher, piece examiner, piece passer, piece percher, piece passer, etc. (East of Scotland linen trade); searcher (woolens cloth), skter (East of Scotland linen trade); examines cloth, as received from weaver, or from bleaching, dyeing, printing, or finishing departments, to detect flaws or imperfections, usually by pulling it over a pillar placed above, and facing a well-lighted window; reports flaws, etc., to warehouseman, or makes other arrangements for flaws to be rectified, e.g. by instructions to mender, dyer, printer; sometimes also notes faults against wage sheet of weaver concerned.

looker (finishing); finished percher; examines cloth before it leaves finishing department, to ensure that it meets satisfactory as regards colour, width, length, and weight per yard.

looker, piece looker (grey cloth); examines cloth as received in bleaching, printing, etc., department, to detect faults which might interfere with high-speed printing, etc., or might give rise to claims for faulty cloth.

looker (hosiery), see corrector (hosiery).

looker, piece (fustian, velvet, etc.); examines fustian, velvet, or other goods after pile has been cut, and, if gashes or holes are found in body of fabric, passes such faulty pieces to ender *q.v.* for repair.

looker, yarn, see sorter, yarn.

mender, piece mender; darns, repairs; inspects cloth as it comes from loom; remedies or orders, threads of warp or of weft dropped by weaver; puts in with needle and thread, threads that are broken or missing, and repairs rents.

mender, brown; a net mender or a lace mender *q.v.* who repairs faults in unbleached plain net or lace, by joining up broken parts with sewing needle; cf. white mender.

mender (carpet), see picker, carpet.

mender, dress; finisher mender (hosiery); hosiery mender; repairs by hand, with needle and thread, defects in knitted fabrics returned from trimming or from coat fitter (knitted coats) *q.v.*

mender, embroidery, see repairer (embroidery).

mender, finished; a mender *q.v.* who mends cloth after it has been through all finishing processes.

mender, hosiery; (i) see mender, dress; (ii) see mender, rough.

mender, lace mender; repairs imperfect lace; often further distinguished according to kind of lace mended, e.g. blond, fancy, point lace mender; sometimes does work of lace examiner *q.v.*; sometimes specifically designated, e.g. Honiton mender, spring mender.

mender, net; mends, by darning or patching, holes or flaws in net; sometimes also does work of examiner (net) *q.v.*; cf. brown mender, white mender.

mender, rough (hosiery); hosiery mender; repairs by hand, with needle and thread, defects in knitted fabrics before they are trimmed, as distinguished from dress mender, who mends hosiery after trimming.

mender, stiff net, see mender, white.

mender (velvet, fustian, etc.), velvet mender, see ender (velvet, fustian, etc.).

mender, white; stiff net mender; a net mender or a lace mender *q.v.* who repairs by hand, flaws in net or lace after bleaching, cf. brown mender, grafter (lace finishing).

nipper (wool weaving), see burler.

overlooker, cloth overlooker, see looker (cloth).

passer, cloth passer, piece passer, see looker (cloth).

passer (carpet); supervises and checks work of carpet picker *q.v.*

percher, piece percher, see looker (cloth).

percher, finished; (i) examines cloth after it has come back from dyeing or other finishing departments, to detect irregularities in shade or faults in weave; (ii) see looker (finishing).

percher, greasy; (i) looks over cloth after it leaves loom, as before it has gone through any finishing process; (ii) examines cloth specially to detect greasy marks.

percher, mending; examines cloth for defects, which he marks with chalk; cloth picker, piece picker (carpet); a carpet finisher *q.v.* who examines face of carpet after it has been shorn, and remedies defects with needle and cotton; also clips out knots in yarn.

picker (cord, fustian, velvet); picker-up (velvet); examines cloth after it has been cut and dressed, to see if any weft threads in pile have been missed in cutting process; cuts any such missed threads by hand.

picker, loose; examines cloth after it has been dyed, and removes impurities, harsh fibres, etc., which have not properly taken dye.

picker, thread picker, yarn picker; (i) (yarn) picks out from silk, moths and other impurities which have not been removed in dressing, in preparation for spinning and drawing; (ii) (cotton doubling) see sorter (cotton doubling).

picker, web, as for picker.

picker-up (velvet), see picker (cord, fustian, velvet).

repairer (embroidery); embroidery mender; overlooks and repairs damages and missed stitches in embroidery by hand or by machine; cf. Swiss lace machinist (376).

scraper, see burler and mender.
screamer (linen trade of East of Scotland), see looker (cloth).
searcher (woollen cloth), piece searcher, see looker (cloth).
sewer, see mender.
skier (linen trade of East of Scotland), see looker (cloth).
sorter (cotton doubling); thread picker, yarn picker (cotton doubling); examines finished yarn, and picks out faults, sorting according to quality, etc.
sorter (delivery room—finishing); sorts finished cloth for despatch according to colour, design, etc., and keeps account of cloth passing through his hands.
sorter, hosiery; (i) set corrector (heelers); (ii) separates hose of like quality, size and colour, and rejects faulty hose, which is reserved for repair.
sorter, piece; piece sorter-out; examines and sorts textile piece goods, either in warehouse before they are sent to be bleached, dyed, printed, or finished, or in bleaching, dyeing, etc. departments, after they have been bleached, dyed, printed, or finished.
sorter, yarn; yarn looker; examines finished yarn, and picks out faults.
sorter-out, piece, see sorter, piece.
splitter, see burler.
stitcher (pattern), see dresser, pattern (mending).
stumper; (i) set burler; (ii) set picker, trimmer, piece, see burler.
velvet doctor, see ender (velvet, fustian, etc.).
yarn counter; yarn examiner; examines samples of yarn as received from reeling process; hangs hanks of yarn over a back at bars; notes breaking and checks counts, as a guide to work done by reellers (307) q.v.; notes names of defectives; sometimes also keeps record of work done.

380.—CROFT WORKERS (NOT LABOURERS).

becher, hatch roller; beamer (grey cloth); guides cloth from singeing machine, or from sewing room, on to a beam, generally by means of an attachment to extend mangle or other machine.
beamer (grey cloth), see becher.
becker; (i) attends a beck, or vat containing either scouring or bleaching liquor, which he prepares; submerges yarn in liquor, and withdraws it when operation is complete; (ii) attends a beck, or vat, attached to any machine in bleach croft.
bleacher; foreman bleacher (ecclesiastical use), whiter; in charge of bleaching and allied processes, and is responsible for adjustment of machines and for their good condition, also for quality of work turned out in all departments prior to finishing; supervises work of machine men engaged in scouring, chemicking, liming, boiling, bleaching, and other processes in bleach croft, and acts generally as foreman in bleach croft.
bleacher, piece; a bleacher q.v. engaged in bleaching piece goods, as distinguished from yarn.
bleacher, yarn, see reeler (yarn bleaching).
blue; (i) blue mangle; passes cloth or yarn, after bleaching, through a solution of laundry blue, to neutralise slight creamy tint left by bleaching, usually works by hand; (ii) is in charge of bleaching operations, whether done by hand or by line mangles.
boiler, see kier man.
boiler, cloth (linen finishing); minds a boiling machine, which gives white linen cloth a permanent finish; winds cloth upon a perforated copper roller; covers with a trapper, and securely ties ends; puts whole in a cistern, where cloth is boiled by forcing steam or boiling water through it.
boiler man, see kier man; cf. boiler man (351).

bowker, bowker; takes up a scoopful of lime or caustic solution, and distributes it over yarn or cloth in kier as yarn or cloth is packed therein; repeats process until kier is full.
chemicker, chemicking machine minder; minds a kind of mangle, through which contains chemicking (bleaching) solution, places material in solution and removes it when process is complete; is sometimes also responsible for scouring process, cf. scourer.
chemic mixer; Newson man; mixes bleaching powder with water, in readiness for use in kier.
cleanser, bleach order; rub board man; cleans specially dirty parts of grey (unbleached) cloth, by rubbing or scrubbing on a board with soap and water; cf. bleach craft cleanser (359).
dash wheel man, dash wheel minder, see wash mill man.
dumper, dumping machine man, see finisher, yarn.
field man; spreads cloth, usually linen, on grass, to expose it to bleaching action of sunlight; keeps it well sprinkled with water.
finisher, yarn; dumps, dumping machine man; feeds and minds a machine in which hanks of yarn, made up into a chain, are passed through a bleaching or tinting solution, and between two squeezing rollers covered with cotton rope upper of which has a dumping or jumping motion; replenishing tinting solution in trough as necessary.
foreman bleacher, see bleacher.
kier man, kier minder; boiler, boiler man, pan man, ponde man, pot man, steamer, steamer man (dyeing); is in charge of kiers, either closed or open, in which cloth or yarn is boiled in an alkaline solution; determines length of operation, and regulates circulation of liquor and its temperature in kiers by means of steam corks, pump valves, etc.; runs yarn or cloth, and solution, in kiers, and empties kiers when process is complete.
limer, liming machine minder; attends to liming machine, having a trough filled with lime solution through which cloth is passed to prepare it for kiers; works under supervision of kier man q.v., threading and regulating eyes, rollers, liming trough and winch to kier at start of operation, and controlling flow of lime solution to trough by means of valve.
liquor man, see chemic mixer.
loft hand; (North of Ireland linen trade) general term for any worker in finishing department of linen bleaching works, including scourer, scouring machine minder, washer, washing machine man q.v.
machine man in croft; general term for a man minding any machine in any department of bleach croft, including blue, chemicking machine minder, yarn finisher, liming machine minder, mangle, reeler, scouring machine man, sorting machine minder, squeezer, washing machine minder, etc.
mangle, blue, see bluer.
pan man, ponde man, see kier man.
pot man, see kier man.
reeler (yarn bleaching); yarn looker; attends a machine which keeps hanks of yarn revolving in bleaching solution; places yarn on roller when yarn is sufficiently impregnated, places it on wagon for removal.
rub board man, see cleanser, bleach craft.
scourer (fustian, cord, and velvet); fustian scourer, velvet scourer; wincer, wincher (velvet); passes fustian, velvet, etc., through a solution to remove stiffening in preparation for dyeing, using a inch to pull it through trough machine.
scourer, cloth scourer, scouring machine man (wool); attends a scouring machine, which removes size and other impurities from cloth; passes cloth between squeezing rollers and sews ends together to make

endless band; fills trough with scouring liquor or sad and heats to proper temperature by means of steam; controls machine by levers and removes cloth when cleaned.
sourer; (i) is in charge of scouring process, i.e. treatment of cloth with dilute acid before and after chemicking, cf. chemicker, supervises work of scouring machine minder q.v.; often takes charge of bleaching (chemicking) department in absence of bleacher q.v. and acts as his assistant generally; (ii) see scouring machine minder.
souring machine minder; sourer; (i) (cloth in case of a scouring machine or scouring system in which cloth is treated with dilute acid in preparation for chemicking, i.e. bleaching process proper, and again after chemicking; operations as for washing machine and; (ii) (yarn) washer yarn after dyeing, in a scouring solution.
squeezer, squeezer attendant, squeezing machine minder; attends to squeezing machine, which extracts as much water as possible from cloth before it goes to mangle; passes end of cloth piece or yarn chain between rollers; controls machine by levers; adjusts pressure of rollers by means of levers or springs.
steepier; a washing machine man q.v. who runs cloth through hot water, and allows it to lie for some hours or overnight to loosen and so assist in removal of superfluous size from warp, in preparation for bleaching.
steakier, steakier man (diacet), see kier man.
washer, washer-out, cloth washer, washing machine man, washing machine minder, washing-off machine man; attends a washing machine, of any type, used for washing cloth before or after any bleaching process; passes rope of cloth through pot eye and through nip of rollers, down through water trough and up over guide roller to nip again; repeatedly passing, so that cloth passes along rollers in a spiral form, being alternately run through water and squeezed between rollers, leaving machine through a second pot eye; controls machine by levers and water supply by cocks.
washer, washing a washer q.v. attending a machine in which cloth, or other waste, waste yarn, settings, etc., are washed.
wash mill man, wash wheel man; dash wheel man, dash wheel minder; attends a wash mill or wheel, a perforated wooden drum, which is made to revolve, and in which cloth is washed in cold water; packs cloth loosely in wash wheel, sets wheel in motion and takes cloth out when finished.
whitener, see bleacher.
winer, wincher (velvet), see scourer (fustian, cord, and velvet).

381.—DYE MIXERS AND DYERS.

becker (dye), see dyer, beck.
colourer, colourist, colour maker, colour mixer (dye's); dye mixer; (i) a master dyer (350) or technical chemist or foreman dyer (359) who specifies colours to be used; (ii) sometimes also does work of drug room man q.v.
colourer, print colourer, colourist, colour maker, colour mixer (for textile printing); reduces, shades (for textile printing); determines strength and mixture of colours to be used, also mordants and auxiliaries required, and either himself mixes colours, mordants, thickenings (gum or starch, etc.), in correct proportions or has them mixed under his supervision.
colourer, piece, see dyer, piece.
colour mixer, colour mixer (carpets and rugs); makes up colours used in printing carpet yarns, adds thickening agents, and boils in pans.
colour mixer's assistant; assists drug room man q.v. in mixing colours for use in dyeing processes.

decolorer (dyeing); combines, for convenience in dyeing, two or more vats which are afterwards separated again by splitter (367) *q.v.*; gets dyes, colorants, by hand, and puts them into machine to dye to shade, operates machine by hand or foot lever.

drug room man; weighs out colour ingredients for use in dyeing processes, under direction of colour mixer, master dyer, foreman dyer, or chemist, and performs other duties in drug room, *e.g.* mixing, dissolving, dye boiler, kettle, pans, etc.; a colour mixer's assistant *q.v.* who boils dyes in cylinders to strength and down by dye *q.v.*, regulating temperature as required.

dye grinder; feeds, and operates, by foot lever, a grinding machine which powders natural indigo dye with revolving stone wheels or a drum grinder on a metal basin.

dye mixer, *see* colour mixer (dyer's).

dye, operative dyer; skilled worker in charge of a dyeing machine, usually assisted by other workers; runs material to be dyed through pot area or between feeding rollers, through vat, through of dye solution, and out through squeezing rollers; or superintends its being run through by his assistants; regulates heat of dye solution, and time for which material is to remain therein; sometimes also mixes dye solution, *cf.* dye (359) and *see* specific definitions following.

dyer, aniline black; a dyer *q.v.* who mixes a machine, usually a padding mangle, (*see* padding) used for dyeing materials with black aniline dye.

dyer, back; back dyer, *dyer's*; a dyer *q.v.* who mixes a dyeing bath, or rectangular box containing dye liquor, through which yarn, or cloth in rope form, is passed by means of rollers and winches, so distinguished from jig dyer *q.v.*

dyer, blue, *see* dyer, indigo.

dyer, burli; a dyer *q.v.* who mixes a machine used for re-dyeing herbs, *e.g.* patches that have not taken dye at first time of dyeing.

dyer, cop; a dyer *q.v.* who places cylinders of yarn, skewered on perforated metal tubes in dye cylinders, fastens down lid of cylinders, and forces dye liquor through yarn under pressure from a pump and other appliances; removes cylinder when operation is complete.

dyer, hank; hank dyer, *skinner*; a dyer *q.v.* who places yarn in position in a dyeing machine, and regulates movement of yarn and dye liquor; (ii) in conjunction with another hank dyer, lets yarn, hanging on poles, sink into dye liquor; raises each skein and turns it a few inches to immerse any yarn that has remained uncoloured, and repeats process until dyeing is complete.

dyer, indigo; indigo vat dyer; blue dyer, vat dyer, vat man, and more (blue dyer); a dyer *q.v.* who immerses cloth over a series of rollers submerged in indigo dye liquor, then through squeezing rollers, and so along other rollers or a travelling band.

dyer, jig; *dyer* (jigger), *jigger* (padding) machine operator; a dyer *q.v.* who dyes cloth in a jig, a dye vat fitted with guide rollers which draw cloth through dye solution; passes cloth several times over guide rollers, in open or full-width form, as distinguished from back dyer *q.v.*

dyer, piece; piece colourer; a dyer *q.v.* dyeing piece goods, as distinguished from raw material, tops, shubbing, yarns, etc.

dyer, skein, *see* dyer, hank.

dyer, slab, *see* dyer's labourer.

dyer, shubbing; top dyer; dyes wool tops or slivers, (intermediate stage in spinning of a yarn) on perforated tubes, as for cop dyer.

dyer, vat, *see* dyer, indigo.

dyer, warp, as for dyer, hank.

dyer, yarn; a general term for a dyer *q.v.* who specializes in dyeing yarn,

includes back dyer, cop dyer, hank dyer, skein dyer, warp dyer *q.v.*

dyer's labourer; shabber (slang), slab dyer, shab maker and tubs of dye stuffs; mixes ingredients of dye baths in prescribed proportions, as directed by dyer *q.v.*; transfers dyed textiles from machine to draining slabs or from one vat or machine to another, *e.g.* from dyeing to rinsing liquor, and shifts dyer constantly.

dye stainer; a dyer *q.v.* who sets up under instructions of foreman dyer *q.v.*, prepares exact shade of colour when alteration is required, and passes cloth through vat.

feather boiler; a colourer *q.v.* engaged in mixing and boiling tint, a yellow dyestuff.

finger, guiding machine attendant, *see* dyer, jig.

indigo clipper; mounts cloth or yarn on frames, which he lowers into dye vat; shifts and exposes material to atmosphere for oxidation.

jigger, jiggering machine attendant, jig tender, *see* dyer, jig.

kettler, *see* dye boiler.

mordant maker; prepares mordants by heating them in copper pans under high steam pressure, and diluting them to necessary strength; is usually a colourer *q.v.*

padding (dyer's), padding mangle, padding tender, padding machine tender; dyes yarn or cloth in a padding machine, similar to a jig, but equipped with squeezing rollers; guides cloth (full width), or yarn, over rollers, and so through dye liquor, and thence through squeezing rollers.

padding man; in charge of pads in which thickening, used for raising colours, are boiled; under instructions from foreman dyer *q.v.* prepares and boils thickenings.

panside man, *see* dye boiler.

reducer, *see* colourer (for textile printing).

reeler (yarn dyeing); a yarn dyer *q.v.* who winds a machine which keeps hanks of yarn revolving in dyeing solution.

shader (dyeing); (i) cuts customer's shades, and hands them to dyer *q.v.* keeps firm's record of all shades; is responsible for correct instructions being given to dyers; (ii) tests shade by cutting small piece from hank of wet cloth in solution, drying it at small steam pipe, if necessary, dilutes dye solution or adds colour; directs removal of cloth from vats when dyed to required shade.

shader (for textile printing), *see* colourer (for textile printing).

skinner, *see* dyer, hank.

slabber (slang), *see* dyer's labourer.

tinter; a dyer *q.v.* who passes through a tinting bath to be tinted, *i.e.* dyed in very delicate shades, material which has usually been through a preliminary bleaching process; sometimes tints by hand, using a pad.

vatman (blue dyer), *see* dyer, indigo.

382.—BLOCK PRINTERS AND AEROGRAPHERS.

aerographer (textile); places stencil over textile fabrics, and sprays, by hand, colours thereon with aerograph, an apparatus for spraying colours, under pressure.

block printer; (i) prints pattern on fabric by hand, pressing on it an engraved block coated with colour; (ii) flat press printer; attends to block printing machine; sets cloth in position, and moves hand levers which swing blocks alternately from colour troughs to fabric and back, *cf.* machine printer (383).

flat press printer, *see* block printer.

tapestry printer (block printing); a block printer *q.v.* who prints patterns on tapestry with hand blocks

383.—MACHINE PRINTERS (TEXTILE).

carpet dyer, *see* carpet printer.

carpet printer, carpet yarn printer; carpet dyer; sets out a design board, and reading from that, sets machine to print colours on warp yarns which are to form pile of tapestry carpets.

colour printer, *see* machine printer.

melanger, melanger machine minder; winds a melanging machine, which prints colours upon tops (combed wool) or upon worsted yarn; guides tops or yarn to rollers, which carry them through machine and print colours upon them.

printer, printing machine man, machine printer; colour printer, adjusts and controls printing machine, which impresses a pattern on textile yarns or fabrics by passing them between rollers, as distinct from a dye bath, *cf.* dyer (381); is in charge of substituting materials for making blankets and for drying cloth after printing, is responsible for correctness of impression and for accurate fitting together of colours to form design; is assisted by back tender, colour carrier, and roller changer (389) *q.v.* whom he supervises in their work; sometimes specifically designated according to material printed, *e.g.* calico printer, cotton yarn printer, hosiery printer, silk printer, tapestry printer.

velvet printer; (i) as for machine printer, *q.v.* operating a single-colour printing machine, like a calico printing machine, which coats velvet with a paint consisting of colour, *e.g.*, Prussian blue and luscid oil; (ii) tells covers or paints back of velvet with luscid colours, on a back-roll mangle; feeds velvet into machine and lifts off at back end, whence painted velvet is carried to drying room.

384.—COLOURERS (WOOLLEN, WORSTED, AND HOBIERY); CALENDERS & FINISHERS.

backer, fasten backer; back filler; attends machine which straightens back of fasten, after it has been stiffened with size and tallow, thereby raising fibres at back of material and softening it; passes material over mangle rollers and withdraws it as delivered.

batter (milk), batter-up, plush batter-up, silk plush batter-up; beats silk material with a stick, to raise pile; then combs it with a card wire.

beamer (wool finishing), *see* winder-on.

beater, dry beater (wool finishing); a miller *q.v.* who uses no liquid felting agents, such as oil, in milling process.

beater, cloth beater, beating machine tender; tends mangle and takes cloth off, beating machine, which beats cloth with a succession of wooden hammers while it is wound round an iron beam, thereby consolidating its fibres and giving softness and lustre to the surface.

blender (wool finishing), or for blanket edger.

blanket edger; binds edges of blankets by hand, with a stitch known as blanket stitch.

blower (wool finishing); decat machine minder, decatting machine minder; winds machine which subjects cloth to action of dry steam, to give it a permanent lustre; wraps cloth round perforated copper rollers, and clears away moisture as steam condenses on cloth.

boiler (snapping); woad boiler; bleaches and softens yarn by placing it in a boiling scouring solution.

boiler (wool finishing); winds cloth on a permanent mangle; covers it with a wrapper, and ties ends; puts whole into a cistern, where cloth is boiled by forcing steam or boiling water through it; *cf.* boiler (380).

heller, yarn, *see* boiler (scraping).
 boiler-out; *see* man; *see* mangle; a bar, or vessel in which yarn is boiled out in preparation for dyeing; as for scourer *q.v.* except that boiling is done in plain water.

bol and minder; stands between two scouring cylinders, or bowls; keeps a constant flow of wool between bowls, and prevents wool from jamming in rollers and racks.

bol feeder; spreads wool evenly upon a travelling lattice, which conveys it to scouring bowls or cylinders.

breaker; minds breaking or mellowing machine, which removes hard and stiff condition imparted to cloth through over-calandering in finishing process, places roll of material in machine and feeds end between rollers and through to winding spindle; adjusts series of screws by means of hand wheel and worm gear.

breaker, fustian; minds on emsoring (grinding) machine, with emsoring-covered rollers, which break up stiffening applied to fustian before it is cut; guides cloth over tension bars to emsoring-covered rollers, and regulates, with hand wheels, amount of grinding applied to material.

brusher, cloth brusher, piece brusher, brushing machine minder; (i) (*brushette*); *see* raiser; (ii) (*velvet and fustian*) feeds and minds a travelling or brushing machine, which brushes up pile of fabric, to enhance its lustre, or in preparation for dyeing or finishing; (iii) (*other textiles*) feeds and controls rollers and revolving brushes of brushing machine, which brushes and cleans cloth and raises a nap thereon; cf. *gligger, raiser*.

calendar assistant; assists calendar man *q.v.* in passing cloth through calendar.

calendar attendant, calendarer, calendar man; calendar holder-through (*lancer*); minds calendaring machine which presses cloth between heavy, heated rollers to give it a gloss or soft finish, or at intermediate stages of finishing operations, scour the cloth; adjusts rollers, passes cloth between them, and controls levers which regulate pressure on cloth.

calendarer, sebastos, or for calendar attendant.

calendarer; a calendarer *q.v.* minding a canny calendar, having two iron rollers through which cloth is passed to break down stiffness after starching.

clamping; a stretching machine minder *q.v.* who adjusts clamps to any cloth passing through clamping machine.

cleaner, cloth, or for scourer.

cleanser (wool finishing), cleanser (woollen cloth), or for scourer.

clipper, clipper-on, cloth clipper; fixes cloth to clips of tentering (or stretching) machine; cf. *stentee* and *tenter*.

clipper, cloth (finishing); brushes up, by hand, warp or loop threads forming pile of brocade, clips by hand with a knife or feeds into clipping machine which is controlled by hand lever.

clip stenter, clip tenter; a stenterer *q.v.* who stretches or stenters, cloth in a machine in which edge of cloth is held in place by clips.

cloth worker; general term for any worker employed in any process in finishing of cloth as distinguished from yarn.

conditioner (cloth finishing), *see* dampener man.

courager; a calendar attendant *q.v.* in charge of type of calendar machine known as couraging machine.

crabber; cloth shrinker, potter, shrinker, stenter (woollen finishing), wool shrinker; tends crabbing machine, which passes cloth, at a suitable tension, through crumpled rollers in a succession of troughs of water, each at a different temperature, where it is crumpled or reduced to a specified width, and set or fixed

thereat; or runs cloth on to a perforated steaming roller, into which it admits steam for same purpose.

cresser, *see* cutter (woollen cloth).

cropsper and folder, *see* cutter (woollen cloth).

cropper, cropper man, cropper worker, nap cropper, piece cropper, cropping machine attendant; cloth

cutter, cloth shaver, cutter, dresser (*carpet*), piece cutter, shaver; minds machine with revolving cylinder knives and brushes, which crop and level surface of material, ensures that knives are correctly adjusted, so that material is not pushed, or too much of nap or pile removed; adjusts tension rollers of machine.

cutter, cloth cutter, *see* cropper.

cutter (bleaching); lengthener; trims off seven parts from ends of cloth previously sewn together; cuts cloth to required lengths, and marks length.

feather, cloth (electric calender); operates sitting machine, which slides cloth into ribbon widths for use in cable making, fits roll of cloth in machine, adjusts knives to gauge, for each business rollers.

fastens edge ribbon and to winding on spindles; controls machine by levers.

outer machine head ender; a head ender *q.v.* on a cropping machine.

outer machine tail ender; a tail ender *q.v.* on a cropping machine.

cutter, piece, *see* cropper.

cutter (warp dyeing); attends to delivery or shifting, and of a warp splitting machine, keeping yarn in position by adjusting automatic guides; assists splitter *q.v.* generally.

cutter, wet; folds cloth, velvet, etc., by hand or machine, while it is still wet from scouring or other wet process.

cutter (woollen cloth), piece cutter, cutting machine tender, cloth cutting machine minder; cloth dealer, creaser, folder (cloth finishing), cropper and folder, piece folder; passes cloth through rigging and cutting machine, which folds and trims it; sets machine to fold and trim cloth as required.

cylinderer, fustian; minds a machine used for drying fustian after it has been stiffened, feeds material over plates through rollers or duping cylinders to rolling machine; controls temperature by means of steam coils or hot air blowers.

dampener; (i) (*hoiery finishing*) damps hoiery by folding and leaving for several hours in wet cloths, or minds a machine which damps hoiery with wet steam in preparation for pressing; (ii) (*other textile trades*) *see* dampener man.

dampener man, damping machine man, damping machine minder; conditioner (cloth finishing), dampener (textile trades), depper (dyeing), piece folder (dyeing), sprayer (silk finishing), wetter; minds damping machine, which sprays cloth as it passes over rollers to moisten it in preparation for stretching, calendaring, etc., or to soften it after starching; controls water supply and watches machine for proper working.

decolor or decatising machine minder, *see* blower (wool finishing).

dagger (dialect), *see* dampener man.

dewer (wool); minds brush dewing machine, which distributes from a special revolving brush a fine mist of water on cloth as it passes over a roller; maintains supply of water so trough and adjusts arrangement by which amount of water put into cloth can be regulated; also adjusts and watches cutting or cloth folding machine if fitted to machine.

dolly, dollyer, dolly man; (i) *see* account; (ii) (*cloth dyeing*) fixes mordants, by passing cloth through various solutions, in preparation for dyeing, (iii) (*wool dyeing*) feeds

and minds stock, in which wet yarn is pounded and squeezed by large wooden hammers.

dealer, cloth, *see* cutter (woollen cloth).

drawer (woollen cloth), cloth drawer, *see* tenterer.

dresser (carpet); (i) minds a machine which cuts backs or warps, of carpets of poor quality with a glutinous material, to give them stiffness and substance; maintains supply of stiffening medium in box or trough; feeds carpet between rollers; (ii) *see* cropper.

dresser, cloth; piece dresser, singer; passes material through a singing machine and regulates its passage over a series of gas jets or over a hot copper bar or plate; regulates heat, and controls pulleys and rollers of machine.

dresser, cord, corduroy dresser, as for dresser, cloth.

dresser (not singing), *see* mangle, filling.

dresser, piece, *see* dresser, cloth.

dresser, warp (Bradford); *see* splitter, warp yarn, cf. warp dresser (Bradford) (W) and (D).

dryer, cloth; drying machine minder, cloth drying machinist; a stentering machine minder *q.v.* working on a drying machine; adjusts valves of hot air blowing apparatus.

edge minder; a centring machine minder *q.v.* who guides and watches edge of cloth to see that it is engaged by clips or pins; assists with fingers where necessary.

embosser; glister, glosser (silk, wool, etc.), lusterer (silk), schreiner, schreinerman; minds a schreiner machine, which produces a raised or grained robe which gives a lustre to face of cloth, and also, in textile printing trade, impart a pattern thereto, or for calendar attendants.

feeder (fustian finishing); attends machine which, by means of brushes revolving in size trough, stiffens fustia, i.e. pile, of fustian as it passes through machine; keeps size trough replenished, guides fustian through machine ensuring even running and tension; cf. *mangle (velvet and fustian), bucker*.

felker, felt fuller, *see* miller.

fettler (finishing); adjusts and does minor repairs to machines used in finishing.

filler, back, *see* hacher.

filler (cloth), *see* mangle, filling.

filler (flaxette); runs flaxette through soap solution to dress it in preparation for raising.

filler, starch, *see* mangle, filling.

finisher; general term for operative engaged in any finishing process, e.g. singing, reeling, sheering, brushing, steaming, starching, calendaring, impregnating, breaking down, or softening, drying, doubling, embossing, lusterizing, doubling, measuring and plaiting, marking, pressing and pecking; sometimes specifically designated, e.g., cloth or piece finisher, blanket finisher, broad cloth finisher, craps finisher, elastic hosiery finisher, fustian finisher, rug finisher, saten finisher.

finisher, fustian; general term for any operative engaged in any process of finishing fustian, including hacher, cylinderer, fuser, pecker, stiffener (fustian finishing) *q.v.*

finisher, silk; minds a calendar machine which straightens and adds lustre to silk woven fabric; as for calendar attendant.

finisher, velvet; minds a machine which straightens out velvet, and burnishes or polishes it; finishes velvet between rollers; controls power drive by levers; cf. *pegger*.

finisher, white cloth (linen), *see* starcher and blower.

folder (cloth finishing), piece folder, *see* cutter (woollen cloth).

fuller, cloth fuller, *see* miller.

gigger, *gig driver*, *gig runner*, *gig tender*; *nap raiser*, *raiser*, *raising machine tender*, *raising machine tender*; mends a gig, a machine which cleans and raises a surface of rollers covered with wire brushes, or by means of toothed; feeds cloth repeatedly between rollers until cloth face is clean.

glasser, *see* *embosser*.
glasser (silk, wool, etc.), *see* *embosser*.
grinder, *plush grinder*, *silk plush grinder*, *silk plush shaver*; a cropper *g.e.* who crops surface of plush piece goods.

guide-in; *layer-in*; *guide*; or *lays machine* in any of the finishing, calendaring or scouring machines; *cf.* *back minder* (finishing) (389).

head ender; stands at head, or delivery end of any machine, and sees that cloth issues evenly and in good condition therefrom.
holder-tender, *calendar*, (*Lower* (188)), *see* *calendar attendant*.
ironer (*hoisery*), *see* *shaper* (*hoisery*).
jersey tender; sets roll of cloth, received from loom to be shaved, on spindle and guides and through rollers and under shaving blades of cylinder to revolving cylinder; adjusts and stops machine by levers; adjusts blade cylinder to shave off "whiskers" correctly; sometimes similarly levels fustian pile.

layer-in, *see* *guide-in*.

lecker, *piece* (dialect), *see* *damper* (108).

legger (*hoisery*), *see* *shaper* (*hoisery*).
lengthener, *see* *cutter* (*bleaching*).

low side minder, *see* *perpetual machine hand*.

luster (silk), *see* *embosser*.

mangle man (linen), *see* *mangler* (linen).

mangler, *mangle man*; *mangle tender*; feeds and minds a mangling machine, of which there are many different types; processes similar to those of calendar attendant *g.e.* except that rollers are not heated; often further distinguished according to material treated or according to type of machine used, *e.g.* Betty Dodd mangler, starch mangler, white mangler.

mangler, *dye*; minds a mangling machine through which cloth is passed after it has been dyed.

mangler, *filling*; *dresser* (*not stage-mangler*), *filler* (cloth), *roller*, *starch filler*, *starch mangler*, *stiffer*, *stiffening machine minder*, *stiffening mangler*; passes cloth, or occasionally yarn, through a mangle, trough of which contains starch, or other solution for stiffening or otherwise finishing (filling or dressing) cloth or yarn.

mangler (linen); *mangle* (not linen); feeds and minds a mangle in which linen cloth, wound on a roller, is pressed between two other heavy revolving rollers, which revolve alternately, first in one direction and then in the other, to put a fine stretch on cloth; regulates pressure on rollers.

mangler, *starch*; *stiffening mangler*, *see* *mangler*, *filling*.

mangler (velvet and fustian); *mangle velvet* or *fustian* by passing it through rollers, *see* *mangle* (linen); also passes it over drying cylinders, in preparation for cutting.

mangler, *water*; *water mangleman*; *mangles* goods which have been treated with plain water, and not with starch, etc.

mangler, *white*; *mangler g.e.* who minds a mangling machine through which cloth is passed before it is dyed.

millar, *milliner*, *millman*, *cloth miller*, *fulling miller*, *piece miller*, *piece millman*, *woolen miller*; *cloth fuller*, *roller*, *felt fuller*, *fuller*; feeds and operates pilling machine, or mulling stocks, which felt or consolidate wool fibres into a dense felt fabric; sees that material passes evenly through machine, reversing machine from time to time to ensure even felting; keeps material

free from tangles; adds soap, oil, or other felting agents to cloth; regulates length and width of material, and weight per yard, by making necessary adjustments in machine; sometimes specifically designated, *e.g.* shoddy miller.

millar (Bannal), *see* *stocker*.
moister; runs muleskin and worsted cords, *e.g.*, Bedford cord, over surface of revolving coarse-grained emery roller, called a *moister roller*, to remove black specks from surface of fabric, in preparation for dyeing.

moistering worker; stands against *stentering* machine used for finishing velvet; *as for* *stenterer*; also regulates gas heating device.

Moser machine tender, *Moser machine minder*; a *gigger g.e.* who feeds and operates a raising machine known as a Moser machine.

napper, *nap setter*; passes fabric, surface of which has been raised and cropped, through rollers of nap machine, and regulates machine in such manner as to produce required setting, *e.g.*, in direction of warp or of weft, nap or pile.

neutraliser, *wool neutraliser*; minds machine in which wool, after it has been scoured, is passed through a solution containing a small quantity of acid, to neutralise alkali in scouring solution; passes wool into machine and removes after it has passed through solution.

pan man, *see* *hotter-out*.

parer; trims, by hand, ragged edges and waste pieces from cloth before it is made up; seldom full time occupation.

pegger, *pegging machine minder*, *fustian pegger*, *fustian pegging machine tender*, *velvet pegger*, *velvet pegging machine tender*; tends a pegging machine, which gives space of velvet or of fustian after it has been woven by water jet; guides velvet between rollers, controlling power drive by levers, *cf.* *velvet finisher*.

percher (*fustian finishing*), *fustian finisher*; *pace*; roughens or raises it by a back of fustian and velvet in the grey state, with flat wire brush, *i.e.*, card, in preparation for stiffening or for cutting; *cf.* *percher* (379).

perpetual machine hand; *low side minder*; a cropper *g.e.* who feeds and operates a nap cropping machine known as a perpetual machine.

Pettitwell minder; a *jersey tender g.e.* working a Pettitwell machine.

potter, *see* *crabber*.

presser (felt); (i) minds rotary press which gives smooth surface to felt; maintains required temperature of pressing roller and cast iron dishes by regulating steam cocks or gas heater apparatus; feeds felt into rollers; adjusts pressure by means of rams; (ii) presses felt to desired thickness in hydraulic press; sets gauges, places sheet of felt in press, operates press by means of valves, and removes felt when pressed.

presser, *hoisery*, *see* *shaper* (*hoisery*).

presser, *hot*; *machine presser* (cloth), *stuff presser*; *press setter*, *press worker*, *pressing machine minder*; passes cloth within sheets of special stiff press paper, and passes it into hot-pressing machine which gives finish to cloth; regulates temperature of hot plates or rollers.

pressing machine minder, *see* *presser*, *hot*.

press man (hydraulic, *hoisery* finishing); feeds and operates hydraulic press to improve appearance of *hoisery* by flattening it; applies pressure by means of weighted hand screw.

press setter, *press worker*, *see* *presser*, *hot*.

progresser; exercises general supervision over progress of goods through various operations; ensures expeditious delivery of goods urgently required; keeps records of goods in progress of finishing.
racker (cloth stretching), *see* *lenterer*.

raiser, *nap raiser*, *raising machine minder*, *raising machine tender*; *see* *gigger*; *see* also *brusher*; sometimes specifically designated, *e.g.* blanket raiser, flannelette raiser, flannelette raising machine tender.

raiser (velvet and fustian); either a *percher g.e.* or a *trouder g.e.*, according as he raises back or pile, respectively of velvet and fustian.

raitcher, *see* *lenterer*.

rigger, *rigger-up*; minds a rigging (longitudinal folding) machine, for processes, *cf.* *cutler* (woolens).

rigger and plaiter; minds a rigging and plaiting machine, which doubles cloth and folds it.

rigger and roller; minds a machine which rigs cloth, *i.e.*, folds it longitudinally, and winds it on a board.

ripper, *woollen*; a *gigger g.e.* who minds a machine which raises nap of flannel in folds or ripples.

roller, *flannelette*; a *raiser* or *gigger g.e.* who treats flannelette by passing it between rollers of raising machine.

roller, *lead*, *rolling man* (finishing); rolls material on the paper tubes as on to a *g.e.* on a power-driven machine; feeds material evenly into machine; sometimes rolls material, by hand, to boards.

schreiner, *schreinerman*, *see* *embosser*.

scourer; *dollie*, *dollyer*, *dolly man*, *washer*, *washer* (*dyeing*) (*occasional*); washes yarn or cloth by passing it through scouring (soap) solution, either by placing it on rollers which revolve on surface of ends or by passing it through suds in chain form, and thence to squeezing rollers, which partly dry it; sometimes specifically designated, *e.g.*, cloth scourer, piece scourer, shoddy scourer, wool scourer (cloth); for *W.* of England synonyms, *see* *washer* (wool finishing).

scourer, *melange*; *washer-off* (*washing*); a *scourer g.e.* who scours material (printed) (*see* *scourer*).

shaper (*hoisery*), *hoisery presser*, *ryser* (*hoisery*), *legger* (*hoisery*); places a shaped board inside *hoisery*, damps it, and presses it with a hot iron, or in a patent press.

shearer, *cloth shearer*, *see* *cropper*.

shearer, *silk plush*, *see* *grinder*.

shrinker, *cloth shrinker*, *wool shrinker*, *see* *crabber*.

singer, *see* *dresser*, *cloth*.

sourer; a *washer g.e.* who soaks, or washes in an acid or scouring solution, yarn after it has been dyed; *cf.* *sourer* (croft) (380).

splitter, *delivery room splitter*; (i) *see* *splitter*, *cloth*, (ii) *see* *splitter*, *warp yarn*.

splitter, *cloth*; *cloth trimmer*, *delivery room splitter*, *splitter*; cuts up cloth lengths at places marked by measure (193) *g.e.*, either by hand or in a cloth-cutting machine.

splitter, *warp yarn*; *delivery room splitter*, *splitter*; *warp dresser* (Bradford); (i) divides yarn into lots, by hand; (ii) (in machine work) counts off a number of threads and guides them to a dividing rail, and so to rollers, which send yarn forward in distinct groups.

sprayer (silk finishing), *see* *dampener*.

starcher, *starch filler*, *see* *mangler*, *filling*.

starcher and *bluer*; *white cloth finisher* (linen); a *mangler g.e.* who starches and blues white linen.

steamer (woolen finishing), *see* *crabber*; *cf.* *stammer* (cotton drying or cotton printing) (381 and 383).

stenter (cotton), *stenterer*, *stenterman*, *stenterer*, *stenter feeder*, *stenter minder*, *stenter driver*, *stentering machine minder*; *cloth stretcher*, *stretcher* (*Yorkshire*).

straightener, *stretcher*, *stretching machine feeder*, *stretching machine minder* (cotton); feeds cloth into *stentering* machine, which stretches cloth by means of clips and endless chains, and keeps it thus stretched while it is being dried, or while it is being dried after dyeing or while

starching; sets roll of cloth on unwinding spindle, threads end of cloth through tension rollers, over endless band of clips and pins and so to rewinding spindle; assists, by hand, engagement of edge of cloth by pins or clips; adjusts, by screws, position of pins or clips to determine width of cloth; sometimes also regulates passage of steam through drying pipes, or regulates temperature in hot-air drying chamber; cf. tenter (wool).

stenter assistant, stenter's assistant; stands at feedbox or at delivery end of stentering machine, and guides cloth on to or off machine.

sticker-in; (i) (*Lancashire*) feeds mangles and similar machines; (ii) (*Yorkshire*) see stenterer.

stiffener, see mangle, filling.

stiffener (molekin); a locker or filling mangle q.v. which stiffens back of molekin, a kind of fusian without ribs, with silk and tallow, after it has been dyed and dried, and before it is stentered.

stiffening machine minder, see mangle, filling.

stocker; miller (funnel); a miller q.v. who minds a stocks machine, principally used in milling or felting funnel, which beats fabric with a series of hammers.

stover (delivery room); (i) dries goods in a hot chamber (store) where it is exposed to fumes of sulphur; and also packs them after storing; (ii) removes material from store to "blue room," where it is put through water to remove fumes of sulphur.

straightener, see stenterer.

stretching, cloth stretcher, stretching machine feeder, stretching machine minder; (i) (cotton) see stenter; (ii) (woollen) see tenterer.

stretcher assistant; stands at feeding or at delivery end of cloth, pin or clip stretcher, and guides cloth on to or off machine.

stretcher (belt); a stretcher q.v. who stretches cloth by gripping it between revolving belts and pulleys.

striker, cloth; stretches nap of cloth on a plying machine, after cloth has been dyed.

tail ender; guides and is responsible for tail end of cloth, i.e. that which enters machine in raising pipes, crabbing or cropping machines, and other similar machines.

tenter, cloth, see tenterer.

tenterer (wool) piece tenterer, tenting machine minder, woollen tenterer; cloth driver, cloth stretcher (woollen), cloth tenter, dresser (woollen cloth), mucker (cloth stretching), mucker (woollen), stretching machine feeder, stretching machine minder (woollen); feeds and minds tenting machine, in which woollen cloth or felt is stretched while wet or steamed, by clips, by drawing chains or by wooden frames, and then dried under tension; regulates heat of steam pipes or gas jets which supply heat for drying, cf. stenterer (cotton).

tenter, mangle, see mangle.

treadle room man, see treadler.

treadler, treadle worker, velvet treadler; treadle room man; guides fabric into a treadling or breaching machine, which automatically breaks up pile of fabric (velvet, or fustian), in preparation for dyeing or finishing, adjusts or sets machine when necessary.

trimmer, cloth, see splitter, cloth.

trimmer (hosiery finishing); prepares hosiery garments for finishing proper by trimming off long ends.

trucker (blackets); a miller q.v. who treats blankets in a finishing machine.

washer (wool finishing), washerman, washing machine man, washing machine minder, washer-off, washing-off machine minder; (W. of England terms), see scourer.

washer, felt; feeds and minds a washing machine, which passes felt through water, and then between mangle rollers.

washer (wool finishing), see for progresser.

waterer; feeds and minds a calendar machine, which gives a special watered finish, or water mark, to silk cloth, by pressing two fabrics together, face to face, between heated rollers; cf. calendar attendant.

waxer, velvet waxer; rubs wax into water or fustian by hand; or feeds and minds waxing machine, which coats pile, or face side, of velvet with beeswax, in preparation for glazing in pressing machine, keeps beeswax hot supplied and heated to proper temperature.

wet boarder (hosiery); places damped hosiery goods on boards, in readiness for present press.

wetter, see damper man.

wetter-out (silk); (i) runs cloth through soap solution when it has been unevenly stretched in stentering, in preparation for re-stentering; makes-up solution and guides cloth to rollers at both ends of immersion trough; sometimes then partially dries in hydro extractor, cf. hydro extractor (385); (ii) damps, as above, pieces of goods, in preparation for dyeing; or washes off silk goods, after dyeing; cf. wetter-out (380).

winner, winchler (dyer's); (sometimes) see scourer; cf. winner (wincher) (369) for usual use of terms.

winder-on (wool finishing); dresser (wool finishing); feeds and feeds a winder-on machine, which winds cloth on to beams in preparation for crabbing or other finishing operations; guides cloth evenly through machine to beam.

winwyer; a napper q.v. who specialises in producing a particular nap, known as winny nap, on blankets; in fine weather, raises nap on-off-beam, by hand, with small comb.

385.—SCOLLOPERS, CLIPPERS, AND LACE WAREHOUSE HANDS.

brown room hand, brown room worker; ware room worker; general term for workers in warehouse where brown (unbleached) lace or net is stored, cuts, weighs, measures, and tickets goods ready for them to be dyed, bleached or dressed.

carder (lace finishing), see jennier. cheniller, chenille twister; dew drupper, spotter; affixes, by hand, spots, usually of chenille, on veillings, lace net, etc.; passes chenille with help of brass wire through veilling and back again, twists it over and clips off end.

clipper; cuts away, by hand, connecting threads lace by embroidery machine, on both sides of lace between held in clipping frame) between disconnected patterns in design.

collater, lace; feeds and controls a small machine, electrically driven, which zoologes lace curtains and makes a fast edge on them; keeps shuttles filled with thread and watches for faults work.

cord cutter-out (lace finishing); lace warehouse hand; a cord stretching worker; cuts finished lace into widths with shears or in shearing machine, dew drupper, see cheniller.

drawer (lace finishing); draws out threads which join breadths of lace together.

dresser (lace finishing); stretches lace web, after it has been starched, on frame to dry in a current of air.

finisher, lace; pins on fancy paper bands, and affixes tickets to pieces of lace, after they have been carded by jennier q.v.

fowler (lace finishing); folds finished net or curtains to size required for pressing and packing; usually first

by doubling lengthwise and then by yards between vertical pegs; removes lace web from dressing frame and folds as above; sometimes specifically designated, e.g. curtain folder, net folder, press folder.

finisher, cord; rough finisher; folds or winds finished lace on cards, as they revolve in a machine called a jenny.

lace duchess (slang), see middlewoman.

middleman, lace; measures finished lace. middlewoman; lace duchess (slang); an intermediary between proprietor of lace warehouse and home workers; collects work from home workers, and distributes orders, designs, and materials for new work to them.

order room hand; takes invoices and keeps record of goods; sometimes makes up parcels.

paperer (lace finishing); wraps lace goods or filled boxes in paper, sometimes done by cutter or lace warehouse man and o.v.

pattern girl, pattern hand; cuts small sample pieces of lace; passes them on sheets, and marks them with number and price.

presser (lace finishing); presses heavy finished lace goods, e.g., curtains, bales of net or lace, in a steam or hydraulic press to reduce bulk and improve appearance.

purler; attaches purl edging to lace, usually by sewing machine.

scollor; a strip of cuts away superfluous net or foundation of lace after patterned edge has been worked.

shifter (warehouses); carries finished lace or pushes it in trucks about warehouse, stacks it under direction of warehouseman (340) q.v.

spotter, see cheniller.

stock girl, stock room assistant; helps stock keeper in warehouse.

warehouse hand, lace; lace warehouse worker, see cutter.

ware room worker, see brown room worker.

390.—JACQUARD PUNCHERS AND CARD CUTTERS.

card cutter, jacquard card cutter, pattern cutter; (i) see puncher.

(ii) (lace) cuts sheets of cardboard specially prepared for jacquard work into strips for jacquard cards, using either hand or power-driven cutter.

card puncher, see puncher.

perforator, card perforator, jacquard perforator, see puncher.

plano puncher, see puncher.

puncher, card puncher, jacquard puncher; card cutter, jacquard card cutter, pattern cutter, perforator, card perforator, jacquard perforator, plano puncher, stamper, card stamper, jacquard stamper;

(i) places plain cards in a card casting machine, usually a pinse punching machine, i.e. a machine fitted, like a saw, with keys, which actually punch by means of levers, depress keys and so operates machine, which cuts, pierces, or stamps holes in cards, according to a set design (either a paper pattern, a string pattern or an already cut card), ready for use in "jacquard" or "dobby" looms (used for weaving carpets and figured or fancy fabrics), or in lace making; (ii) for Swiss embroidery machine, follows point by point, with a flexible metal arm, an enlarged vertical design, thereby making at each point an electric contact with machine which punches holes in jacquard card, as it is slowly unwound from revolving drum.

reader-in; reads from a design paper, and transfers pattern to jacquard cards by pulling selected cords in reader's embroidery machine, and operating foot levers, thereby punching springs which drive puncher through cards; cf. plano puncher, card cutter.

stamper, card stamper, jacquard stamper, see puncher.

397.—HEAD KNITTERS.

camb (caulm) knitter, machinist, maker; used in Dundee district (jute and linen trades) for head knitter, machinist, maker, respectively, *q.v.*
dope (doup, dupe) knitter, machinist, maker; used in Glasgow district for head knitter, machinist, maker, respectively, *q.v.*; usually applied to knitter, machinist, or maker of beads for chenille looms, or looms making gauze or leno.

gear knitter, machinist, maker; used in Yorkshire, and in carpet trade of Scotland, for head knitter, machinist, maker, respectively, *q.v.*
havel knitter, machinist, maker; dialect terms for head knitter, machinist, maker, respectively, *q.v.*
head knitter; (local or dialect synonyms: *camb, coum, dope, doup, dype, gear, havel, heddle knitter, head stoker, head man*; (i) see head machinist; (ii) knits, by hand, beads (loops through which warp threads are drawn) made of worsted or cotton.

beald machinist; (local or dialect synonyms: *camb, camb, dope, doup, dype, gear, havel, heddle machinist, head maker, head knitter*; makes and repairs beads, loops through which warp threads are drawn, working on a machine which knits beads from spools of cotton handing or worsted; sets up machine by threading from bobbins over pulleys into machine, places broken threads, removes knitted beads from machine and threads a wooden stave through top and bottom loops and metal rod through eyes, to keep them in position for brushing, sizing and varnishing.

beald maker, **beald man**; (local or dialect synonyms: *camb, camb, dope, doup, dype, gear, havel, heddle maker*; (i) see head knitter; (ii) makes wooden framework of beads, loops through which warp threads are drawn, and knits on twine which keeps beads in position; (iii) general terms for any operative engaged in any process of bead making, *i.e.*, in knitting, machining, assembling, fitting, varnishing, or storing, threads, eyes, harness, staves, or framework of beads.

beald knitter, **machinist, maker**; Scotch terms for head knitter, machinist, maker *q.v.* respectively.

jacquard barrow knitter; a head knitter *q.v.* knitting beads for jacquard looms.

398.—OTHER SKILLED WORKERS.

tager, ager man, ager minder, age minder, ageing machine minder, steamer (fainster); minds ageing machine, which drenches and dyes printed colours in acid, occasionally, on yarn, by application of mangle heat; regulates temperature, steam pressure, and ventilation of machine, and rate at which cloth or yarn is run through it; sometimes especially designated according to colour of goods or kind of material used, *e.g.* aniline, indigo, hydrosulphite ager.

alterer, carpet; changes coloured yarn bobbins on Brussels carpet loom, in preparation for weaving a fresh pattern, or part of a pattern; usually done by improver in training as carpet weaver (320) *q.v.*

alterer, loom (elastic web); changes jacquard cards on elastic web loom, or makes alterations to loom, when a change is to be made in web woven.

artificial silk worker; general term for any person employed in spinning, weaving, etc., of artificial silk, including spinner (365), winder (367), draw-in (368), trier-in (368), weaver (369), silk blosky hand (374), croft worker (380), dyer (381), printer (382/3), finisher (384); *cf.* artificial silk worker (143).

asbestos joint maker, asbestos packing maker; makes, by hand, asbestos jointing, rope packing for steam engines, pumps, pipes, etc., *q.v.*
assistant overlooker, assistant tenter (jute), **underlooker, under overlooker**; works under direction of overlooker (351/2) *q.v.* in extensive works, carrying out duties as for overlooker in charge of section, sub-section or group of machines; sometimes specially designated, *e.g.* assistant power loom overlooker.

assistant overaser (flax and hemp); keeps carding machines in running order; removes waste fibres, dust, etc., with a stripping brush.

thacker; back filler, back filling mangle, back fill mangle, back stacher, back starch filler, finisher (bleach works); (i) minds or back starching, or back filling machines, which starches cloth on one side only; guides cloth over tension rails to starch roller, keeping side which is to be left unstarched against rollers; staps and stops drive which sets machine in motion; (ii) a machine, *q.v.* in charge of a machine which puts thickening or weighting agents, starch, china clay, etc., on back of cloth.

baller, balling machine minder (finishing); cop maker, minds a machine which sets or winds yarn or twine into balls; guides yarn or twine through machine to spindle, which winds yarn or twine upon itself, the lay of yarn or twine on ball being varied according to requirements; sometimes specially designated, *e.g.* cotton baller, cotton rope baller, warp yarn baller.

band sewer-on (wool spinning); taper, tape sewer, tape sewer-on; sews, by hand, ends of driving bands for use on spinning frames, or repairs such bands similarly.

baizer (ropes, etc.); *fonner*; makes up bark twisting section in rope vat, and immerses ropes or cords, etc., therein.

baicker (flax and hemp); (i) arranges different qualities of tow in layers to facilitate mixing of tow for carder (338) *q.v.*; (ii) applies water and oil to spun out hemp to soften fibre to prevent it from "locking up" during subsequent processes of carding.

batcher (jute); *jute stricker, stricker, striker-up*; (i) tears apart opened bales of jute, and divides jute into stricks, or portions, convenient for handling; sometimes also grades jute according to colour; *cf.* jute cutter; places stricks within any reach of softer feeder (359) *q.v.*; (ii) divides-up jute into four sets; doubles and twists ends of sets, places sets in a stall, a wooden receptacle, adds prescribed quantity of oil and water and leaves to soften; method almost superseded.

beam changer (carpets); changes beam of threads forming pile of carpet in loom, and substitutes another beam, containing threads of another colour or of different fibre, when pattern is to be changed.

beamer, white piece; minds a machine which winds bleached cloth on to a beam, large bobbin, with flanged ends, in preparation for subsequent processes of printing, dyeing, or finishing.

beamer (yarn dyeing); minds a machine which winds yarn on to a perforated beam in preparation for dyeing.

baister, beater; fishing net mender, net mender, net repaire; mends fishing nets, by hand, with twine and shuttle; sometimes also a net mender *q.v.*

billet marker (jute weaving); ticket marker; keeps record of length of jute cloth woven by weaver; checks measurements with particulars on billet or ticket.

blender, colour (cotton); selects for blending, raw cotton of different colours, such that, when blended, the required type of yarn is obtained.

blender (wool); shade getter (wool); chooses raw wool as that, when blended, blend will give shade required.

blocker (silk finishing); (i) embosses designs on silk fabrics, by hand; (ii) winds batches of cloth on a roller or block, before running them through finishing machines.

bobbin presser (lace); reduces thickness of bobbin, filled with cotton or silk, for placing into carriages of twist lace machines; places bobbins in press, screws down lid, places press in steam oven and further tightens press, if necessary, on removal from oven.

bobbin thrasher (lace); brass bobbin thrasher, thrasher (lace); puts brass bobbins, received from bobbin presser (lace) *q.v.* into carriages for use in lace machines, and passes thread of cotton or silk from bobbins through eyes in carriage of lace or net machine.

boiler, boiler man (flax yarn); boiler handler, handler (flax yarn boiling); boils flax yarn in water tanks to expel gumming and resinous matter.

boiler (flax yarn); (i) dips of spun (or curled) hair in a tank.

boiler (ramie spinner's), *see* ramie spinner's boiler.

boiler, boiler-off (silk), *see* washer, silk.

braider (finishing nets); *breeder, breeder knitter, breeder weaver, net braider, net maker*, *see* breeder (finishing nets); (i) fastens a number of ends of yarn or twine to a beam and braids them, *i.e.*, pleats and knots yarns in such a way that threads intersect at regular intervals and form a mesh; (ii) (finishing district); guards, attaches edging of heavier net, four inches deep, to fishing nets woven on net loom, using setting needle and twine.

braider, band machine; *band net braider*; *band knitting net maker*, *band machine weaver, racket* (band pleat); a braider (finishing nets) *q.v.* using a kind of knitting machine or loom, worked by a treadle; fills needles with yarn and watches for faulty knitting.

braider, power machine; *braiding machine, braider, set loom, power machine weaver*; places spools of fibre in position on automatic machine, which seizes fibres and pleats and knots them into fishing nets; controls machine by hand lever.

braider, semi-power machine; *semi-power machine knitter*; a braider *q.v.* using a machine similar to a power machine (cf. power machine braider) but requiring more hand control.

braider, twine, *see* braider (finishing nets).

braiding machine minder, *see* braider, power machine.

braiding net maker, band, *see* braider, band machine.

brand tenter (silk); *see* plester.

brass bobbin thrasher, *see* bobbin thrasher (lace).

breeder, braider knitter, breeder weaver, *see* braider (finishing nets).

buzzer, *see* hydro-extractor.

card changer; removes jacquard cards which have passed through loom from jacquard card cylinder, and replaces them with new ones, to enable a different design to be woven; in Kidderminster carpet trade, also changes coloured yarn bobbins on loom, in preparation for weaving a new pattern.

card compiler (weaving); *pattern maker*; sorts up punched jacquard cards in proper order to produce correct pattern in weaving; *cf.* lacer. **card man** (carpets); is responsible for care of jacquard cards; sometimes also acts as card changer *q.v.*

card repaire; repairs broken jacquard cards, by drilling fresh holes near breaks, and lacing broken parts together.

card wire, *see* lacer.

cellarman (cotton mill); is in charge of cellars where raw cotton is stored; superintends stowing of bales, and their removal to other departments of mill as required; has charge of conditioning machines, which restore moisture to cotton.

cellarman (wool), wett cellarman; receives, and keeps in order stock of wadding; is also in charge of wett roller, to which he lifts bales in and out of cellars; has no responsibility for conditioning; cf. stock room man (1941).

chain matter; reading from design on squared paper, (cf. designer) build-up, by fastening link to link, loom chains, i.e., part of mechanism controlling interlacing of warp and weft, in production of fancy woollen cloths.

chain turner (at loom); sets up, takes down, or changes loom heads shape, which maintain equal strain on warp during weaving.

tolkater (wool winding); helps warper (367) g.v.

electric (gassing), see gasser (yarn).
electric passes cloth through rollers revolving in solution to remove faults, bleach, etc., before finishing or printing; runs or pours solution into receptacle and sets rollers; in small establishments may be done by tangle (textile printing) g.v.

colourer, colourist (carpets); colour wotcher (carpets); selects coloured yarns to go into carpets, in accordance with design received from designer g.v.

colourist (wool), as for designer.

colour matcher (carpets), see colourer (carpets).

compiler of steel pattern cards, as for loom.

conditioner, yarn conditioner, cop conditioner; cop damper, damper, kusidhar attended, wett damper, yarn damper; dries and weighs samples of yarn, and calculates regain of moisture; minds sprinkling (damping) machines containing a gauge which registers amount of water used in sprinkling; decides stage of condition, i.e., moisture, required in wool or in yarn.

cop maker, see baller.

copperman (silk), see washer, silk.

corrector (line), see reader, card.

currier, hair; puts hair into card or twist on hair rope or yarn, by hand, after first process of curling, or spinning (365) g.v.

currier, horse hair, as for currier, hair.

currier, mohair yarn; attaches a number of mohair yarns to staples of machine, which first twists yarn and then untwists it; attends to running of machine.

currier, worst (horsehair); teaser (horsehair); partly untwists rope of hair into which it has been twisted to give it a partial curl, and passes it through a teasing machine, similar to that used by hair miller g.v. to separate and open out hairs.

cutlar, baxantian, as for cutter, cord.

cutlar, chenille; a machine which cuts chenille for into strips, for use as pile in weaving, by means of knives set on a cylinder; guides chenille from its rollers to feeding roller of machine, gathers up cut lengths of fur, controls machine by levers, replaces defective knives.

cutlar, circular; oval cutter, cordway cutter; cuts cordway, on a circular machine; applies edge of cloth to rollers, with pile facing upwards; sets engine in motion, which causes cloth to travel through machine, and cuts pile with circular discs.

cutlar, cord; cordway cutlar; (i) see cutlar, hand; (ii) see cutlar, circular; (iii) applies edge of cloth to rollers, with pile facing upwards; sets engine in motion which causes cloth to travel through machine, and cuts pile with a specially formed knife, secured in machine; adjusts knife so as to cut pile at required angle.

cutlar, felt; cuts felt to required size on guillotine.

cutlar, fustian; cuts fustian, usually by hand; for processes, cf. cutlar, hand.

cutlar, hand (fustian, cordway, etc.); oval cutter, cordway cutter; passes end of cloth over frame and round roller, to which he secures it; draws it taut by strainer fixed to frame; inserts point of knife under loop of end thread, and pushes knife along warp, thus cutting pile.

cutlar, machine (fustian, etc.); feeds and winds a machine which cuts up waste or other coarse fibre for greater convenience in subsequent processes (spinning, etc.).

cutlar, molskink, cut, molskink (strong twill cloth, like fustian, but softer), by hand or machine; for processes, cf. cord cutter, or hand cutter.

cutlar, Netherwood; a cord cutter or a fustian cutter g.v. using a Netherwood or Knapley machine.

cutlar, pattern; patternman, pattern room man, sample cutlar; cuts cloth into small pieces for use as patterns or samples, by hand or in a machine.

cutlar, pile (silk); a hand cutter g.v. cutting silk pile fabrics.

cutlar, sample, see cutter, pattern.

cutlar, silk velvet, as for cutter, pile (silk).

cutlar, thickset; cuts thickset, re-sembling cordway, but with finer ribs, usually by machine; for processes, cf. cord cutter.

cutlar, velvet; select machine man; sets velvet, with hand knife or by machine, taking care that pile is set in required manner; for processes, cf. cord cutter, and hand cutter.

cutlar, velveteen, as for cutter, velvet.

cylinder man, cylinder drying machine minder, see drying cylinder man.

damper, cop damper, wett damper, yarn damper, see conditioner.

designer copder, designer's copyist; copies design made by designer g.v. and reproduces it in full and in proper colours for use of colourist g.v.

designer, cloth designer; textile designer; design sketcher; designs patterns for cloth, by new inventions of warp and of weft yarns, coloured or not, and sets out such designs on paper; sometimes specifically designated, e.g. damask designer.

designer, card; a designer g.v. who sets out designs on special paper, indicating positions where holes are to be punched in Jacquard cards by card puncher (366) g.v. using colours, measurements, etc., for guidance of design copier and of textile draughtsman (362) g.v.; cf. reader, reader-of (lace).

designer (carpets); designs new patterns for carpets, by new interlacing of pile, chain, etc., warp, and weft, and sets out and colours such designs on paper; sometimes gives directions in preparation of materials, e.g. to tuft cutter g.v.

designer, pattern (printer's); textile print designer; designs patterns for use in textile printing, having regard to special requirements of customer in each case.

designer, filler-in, damra painter; repairs torn or patchy designs to be woven, by filling in certain squares, indicating where warp is to be raised over weft on squared paper, and leaving other squares blank.

designer sketched, see designer.

developing machine minder (textile printing); is in charge of machine used for second, or developing, processes of ice or developed colours (decolorative of coal tar kept below decomposition point by ice); feeds machine with colour, prepared for him; packs ice into machine to prevent decomposition of developing agents; guides cloth end through machine, and through subsequent water bath.

dipper, colour (lace); a lace dipper g.v. who dips lace net or curtains in a vat of stain, not fast dye, and then into starch.

dipper, lace; dips lace or net in starch, and passes it through rollers.

discharger, silk, see washer, silk.

divider, valvate, as for cutter, pile (silk).

dobby; chain maker for loom; puts together chains of spindles which carry bawls (rollers) operating Jacquard motion, in dobbers and similar looms.

dobby harnesser, dobbie legger; pattern maker; a harness gater g.v. engaged in tying loom harness on a dobbie loom and otherwise setting-up the "motion."

dobbler (bleaching); winds machine which doubles cloth longitudinally; as for cutter (384).

doublet (elastic web); twists together cotton and rubber threads, for use in making elastic web; as for doubler (386).

drawar (jute), see lease lifter (jute).

dresser (bleaching), see sifter.

dresser (woolen felt); dresses wool with size, etc., in card room, in preparation for manufacture of woven felt.

drum filler (textile printer's); under instruction of foreman, puts starch and size in specific quantities into priming machine, which controls supply of hot water and steam by valves, thus keeping drum filled and at proper temperature.

drum machine minder, drummer (silk); operates a machine which causes drums to revolve and to wind opened silk waste upon itself.

drum stripper (carpet yarns); takes threads of carpet yarn also they have been printed by carpet printer (383) g.v., also loops them together in bales round drum, on which they have been printed; numbers them to show which thread each represents in carpet to be woven; with help of assistants, inserts a stick under oldish surrounding drum, and lifts it and yarn cloth of drum.

drum stripper (textile printing); removes, by hand, cloth from drum of printing machine; stops and starts drum by hand lever; highly skilled operation.

dryer, dryer man; dries raw material, yarn, cloth, or felt, either in a heated chamber, or by passing it over heated cylinders in a cylinder drying machine, or in any other form of drying apparatus; regulates temperature of drying chamber or drying cylinders, and time during which material remains in chamber, or speed at which it passes through machine; sometimes specifically designated, e.g., calico, cloth, felt, linen, silk dryer; cop, hand, warp, yarn dryer; cf. dryer (384 and 386), stover.

dryer, shado; a dryer g.v. who winds a drying machine in which cloth is dried after being dyed; adjusts admission of steam to drying cylinders to obtain correct shade according to colour pattern supplied to him, shade depending on rate of drying.

dryer, tin; tin cylinder dryer, see drying cylinder man.

dryer, white; white piece dryer; a dryer g.v. engaged in drying white (bleached) goods in bleaching department of a composite works where dyeing or printing is also done.

dryer, yarn (flax and hemp), see loft man.

dryer, yarn (ginsapping), see sifter.

drying cylinder man, drying cylinder minder; cylinder drying machine minder, cylinder man, fin cylinder dryer, fin dryer, fin man; a dryer g.v. in charge of drying tin or hot cans, i.e. revolving steam-heated cylinders round which cloth or yarn is passed; regulates heat of cylinders, and speed at which cloth or yarn passes over them. man, drying machine minder, drying mechanist; a dryer g.v. in charge of a drying machine, whether of cylinder or of any other type; sometimes specifically designated, e.g. cloth drying mechanist.

drubber, valvet (fasten cutting); shears or dubs, by hand with fine scissors any raised parts of fasten valvet used to fasten, cutting at knotted cotton; usually done by weaving overlocker (356) g.v.; (more usual) using fine scissors, corrects slips, i.e., irregularities in pile caused by faulty cutting.

examinate (fishing nets), see ransacker (fishing nets).

fancy hair bleacher, worker, or for hair bleacher or hair worker.

feeder-in (mercerizing); inserts yarn or cloth in mercerizing machine; for processes, cf. mercerizer.

fettler (cotton weaving), see jobber, loom.

fine screener (coco-nut); atomizes and feeds machine filled with screen or grid, to sift fibre and to remove dirt, by back; back starch filler, see backer.

finisher (bleach works), see backer.

finisher, drum; line finisher; stretching drum finisher, sizer (twine and cord), stocher (twine), twine finisher, twine polisher; usually a machine which polishes twine and cord in rope walk; knots ends of twine lengths, and passes them over pair of polishing drums in form of an endless band, controls power-drive which sets drum in motion.

finisher, stave, see stower (lumber).

finisher, surgical bandage; surgical bandage maker; cuts out, by hand or, more usually, by machine, bandage from roll of bleached cloth, and cuts tail (end), according to requirements.

finisher, twine, see finisher, drum.

finisher, warp; a dryer g.v. which winds a drying machine, in which warp yarn is dried, after it has been sized or treated by some other wet process.

finisher-and-reeler (twine), see twine dresser.

firer (bleacher's) see singer.

frier (fasten), see gasser (cloth, etc.).

frier (dyer's); passes fabric through a solution of acetate of soda, to prepare it for dyeing process.

fringe knitter; plait and knots, by hand, loose fibres projecting from band or foundation of fringe; also makes tassels, shavers or bows, and ties them on to fringe.

fringe twister; twists loose fibres projecting from bullion or other fringe.

gas band, see gasser (yarn).

gasser (cloth, fasten, lace), frier (fasten), gas singing man (cloth); a singer g.v. engaged in singeing cloth, fasten, lace, etc. by application of a gas flame.

gasser (yarn), dresser (gassing), gas band, gas singing man, gas winder (yarn), asseler, sweater; places bobbins of yarn or thread on a gas-sing winding frame; guides thread or yarn to tube upon which yarn is finally to be wound; lights gas burners, and stoves, which regulate gas supply to burners, taking care that yarn is not scorched or stained, and that machine is kept free from gummy substance formed by burnt fibre.

gas singing man; (i) see gasser (cloth); (ii) see gasser (yarn).

gas winder, see gasser (yarn).

gasapper, gasnapping machine minder; a gasser (yarn) g.v. specially engaged in burning off surface hairs of worsted yarns in a gas flame (gasnapping).

gasifier, gasifier, gasifier band; passes lace, frilling, or other material through gasifier rollers to produce pleated effect.

grease extractor (woollen mill); operates, by means of levers, press which expresses oil from soap cakes obtained in soap recovery plant of woollen mill; also separates lubeum adding acid to residue of soap and oil run off from scouring plant, moulding soap into cakes, etc.

grey man, grey room man (dyeing), see sorter (grey room).

grummet maker; makes grummetts (grummetts, grummetts, grummetts), i.e. washers of asbestos or of some textile material, used to make tight tubes of water-tight baskets.

guarder (Dundee district), see braider (Dundee district).

hair bleacher; prepares bleaching solution, and immerses hair in it.

hair dresser, see hair finisher; cf. hair dresser (363).

hair dryer (felt); (i) winds, and regulates heat of, drying ovens in which sheets of hair felt are placed to dry, after processes of mulling and pressing; (ii) winds a machine which dries hair fibre, after it has been washed.

hair duster; places hair, after it has been dyed, in mechanical shaker to free it from dust and dirt.

hair finisher; hair dresser; does final finishing operations to horse hair pieces goods used in tailoring, e.g., crabbing, starching; cf. crabber, mangle (384).

hair frater, see sorter, hair.

hair miller, hair millman, hair mill hand, hair millner; hair miller, miller, mill hand, millner, miller (hair); (i) hair mill on floor, and mixer together, by hand, various qualities, e.g., horse hair, cowtail hair, pig hair, etc.; (ii) places mixed hair on feed lattice of machine, called a mill, which draws hair through a cylinder, having a revolving shaft with projecting flutes which open and close hair; spins hair into a rope, by hand, to give it a curl; dumps it, and below it is an oven to make curl permanent.

hair mixer; (i) see hair miller; (ii) mixer for machine which opens out, or uncurls, horsehair after it has passed through curling room, reducing it to a loose, fringed condition, in which it is put in sacks for use in manufacture of bedding.

hair tipper; sorts earlier g.v. by further loosening hair, after it has been curled, to facilitate spinning.

hair worker; general term for any person employed in curling, spinning, weaving, etc., of hair, or in processes connected therewith; includes: hair bleacher, hair dryer, hair duster, hair finisher, hair miller, hair mixer, hair sorter, hair tipper, hair carder (323), hair dresser (363), hair dryer (328), hair boxer (369), hair opener (328), hair winder (370), hair spinner (365), hair warper (367), hair washer (369).

halter maker (rope), rope halter maker; twists strands of hemp by hand wheel to form rope of suitable length for halter rein; forms strong eye at one end by whipping with twine; weaves webbing on hand loom or frame, forming eye from warp loops by binding with twine; knots up rein and web to make halter, complete.

handier, better handier (flax yarn) bellinger, see builder (flax yarn).

hand machine weaver (fishing nets), see braider, hand machine.

harness builder, power loom harness builder; builds up, away from loom, series of cards and attachments to form Jacquard loom harness; i.e., gear which controls movement of warp threads in weaving; threads and ties lingoes, hanger cords, mail eyes, combor board and warp threads, as necessary, assisted by thread coupler (320) g.v.

harness gaiter; harness tie-up, warp loom knitter; ties heads into harness of loom; threads them through holes in wooden head or rod, speed according to fineness of cloth to be woven.

harness sewer (wool weaving); repairs harness of loom, i.e. gear which controls movement of warp threads in weaving, using special needle and wire.

harness tie-up, see harness gaiter.

head filter; separates heads from loom reeds in particular arrangement required by pattern to be woven.

head mender; a putter-up or loom jobber g.v. who repairs heads by hand; joins broken ends.

horse hair bleacher, dresser, miller, sorter, worker, as for hair bleacher, dresser, miller sorter, worker, respectively.

humidifier attendant, see conditioner.

husk crusher, husk mill hand (coco-nut fibre); winds a crushing machine, which separates fibre from husk of coco-nut by action of metal beaters, and feeds machine with husk, which has first been soaked.

hydro-extractor, hydro-extractor minder, hydro-extractor tender, hydro-extracting machine minder, hydro man, hydro tender; butter, madder, madder, singer, singer, singer, singer, singer; puts wet yarn or cloth or felt into a hydro-extracting machine, consisting of a perforated cylindrical metal cage; sets cage revolving, when moisture is thrown off by centrifugal force, removes material from cage for conveyance to dryer.

Jacquard harness builder, Jacquard harness maker, as for harness builder.

Jacquard harness mender; mounts or fixes Jacquard harness on looms.

jobber; does minor repairs to drawing frames, spinning mules, doubling frames, looms, or other textile machinery, and does other odd jobs under the direction of overlooker of his department; often further distinguished according to class of machine or of material, e.g., braid jobber, double jobber, drawing jobber, spinning jobber, twisting jobber.

jobber, mender, singer, singer, singer, singer, singer; repairs minor defect in loom, assists tamer (356) g.v. to put beads and reeds into loom; places and starts new beams for weaving, and removes beams when empty.

pute cutter, pute selector; selects and assorta puts into grades, according to colour, and cuts off roots by drawing fibre across fixed knife or sythe blade, often done by betcher (pute) g.v.

knitting band (lace); ticks, quills, and makes up lace or other material by machine; sets gauges and grades and feeds material between rollers.

knitter, machine knetter; operates a mechanical knetter, which ties ends (threads) of old warp on to those of new warp.

knitter (quills, etc.), quilt knitter; gathers up fringe of quilt or other fringed goods, and ties it into knots at intervals in row edge.

lace band, lace worker; general terms for workers tending any machine and/or carrying out any operation in lace making or finishing trade; includes: lace hand (376), and lace worker (377), lace warehouse hand (385) g.v.

lecer, card lecer, card cutter's lecer; card winder; Jacquard card lecer, Jacquard lecer; threads Jacquard cards, lace patterns, cards, etc., in proper sequence on web and by means of cloth or lace, by hand or by machine; cf. card compiler (weaving).

lecer, chain; dobby lecer; Jacquard card lecer, Jacquard lecer; (i) places Jacquard cards, chain, side by side in proper sequence; threads them together with a needle, the thread passing alternately from right to left and from left to right in such a way as to form an endless chain of cards; (ii) places Jacquard cards in proper sequence in a machine and operates mechanism which looms them automatically.

lecer, Jacquard; Jacquard card lecer; (i) see lecer; (ii) see lecer, chain, last setter (ganapping), see setter (ganapping).

lecer-tender, see sorter (grey room).

litterer, litter (gate); dresser (gate); takes end of warp with right hand on to weaver's beam, after beam has been removed from weaving frame, and which contains weaver's loom; selects individual threads, and draws them through heads with a hooked tool, or attaches them to each of warp threads in fabric already woven and in loom.

flat boy; sews, with hand sewing machine, driving lists or cotton bands, which drive spindles of spinning frames; sees that bobbins are kept in good condition, replacing old bands with new when necessary.

locker, flat; feeds a power-driven fish lock machine with knitted fabrics, which are carried along a sloping arm, are automatically trimmed to correct shape, and then are sent to stitching needles, which join them edge to edge, forming a very flat seam.

loft man, yarn loft man; runs dryer (dye and hemp); places bobbins of wet spun yarn in drying room in steam-heated drying room or kiln; straightens out and turns bobbins during drying operation, to ensure uniformity, in preparation for baling.

long side mender (silk); mends any machine having a long side, i.e. a greater number of spindles than is usual; may be either a roving frame mender (3613), a spinner (365) or a doubler (371), or a thrower (372) *q.v.*

looseener (heads); prevents varnished threads of heads from sticking together.

machina man, see tinner's assistant.

mangler, back fill; back filling mangle, see becker.

mangler, mangle man (bleacher's); mends a mangling machine, which generally has two or more rollers, one above another, or a roller above and a plate, called a dryer, below, between which cloth is passed; guides cloth through trough, containing various pastes or solutions according to particular kind of finish required, and also through rollers, and makes any adjustments required; sometimes designated according to character of solution, e.g. soda mangle, water mangle.

mangler, dry; a mangle *q.v.* in charge of a machine whose rollers are heated, or through which cloth is passed only slightly damp.

mangler, filling; a mangle *q.v.* in charge of a machine which, besides mangling, also dries cloth with a filling material, such as clay.

mangler, mangle man (textile printing); mends a mangling machine, which partially dries cloth after washing by pressing it between rollers; sets rollers to regulate pressure; guides cloth end through machine to winding-on roller; starts and stops machine by puller lever, etc.; is usually establishment, also does work of clearer, preparer, stop paddler, starcher *q.v.*

mangler, white; a mangle *q.v.* engaged in mangling white (bleached) goods only, in bleaching department of a works where dyeing or printing is also carried on.

marker-out (fasten, etc.); marks out on fabric, portions of pile to be cut and not to be cut, respectively.

mat comb; straightens out twisted strands of yarn from surface of woven mat to improve its appearance.

mat maker; makes dose mat by hand, by inserting tufts of coco-mat fibre through string yarn, suspended from a beam, in such manner that tufts form pile of mat.

mat shearer, mat trimmer; (i) trims projecting fibres from surface of mat, and remedies minor defects with needle and shears, to improve its appearance; (ii) drives a machine which shears off projecting ends with rotating spiral cutters.

merceriser; passes cotton yarn or cloth between rollers, which carry it through a trough of caustic soda solution, thence through a stretching frame, and finally through a washing trough, to extract excess of caustic soda and to give yarn or cloth a silk-like lustre.

milner, millman, mill hand, millner (hair); see hair mill.

mochar winder; twists ends of pieces of mohair cloth with fine wire.

motion minder, see hydro-extractor.

mounter, harness mounter; fits jacquard attachment, cards, and harness to loom, ready for weaver; joins or ties by hand lines threads which have been drawn through comber board to cotton cards, each of which is attached to jacquard mechanism.

muslin clipper, muslin cropper; one of a pair of workers who cut, on cutting frame, connecting threads of muslin leaving pattern comprised of short ends; places muslin in frame, guides through cutting knives, attaches to hooks of winding-on roller, sets knives and, in cutting, either guides muslin, by hand, over rollers to knives, or, taps it gently with a cane to open-out connecting threads; after cutting, releases knives and removes main; operates machine by hand lever.

muslin ripper; stretches muslin between two rollers and cuts, with hand knife, certain warp cords to form pattern; machine here unsuitable passes ripped muslin to muslin clipper *q.v.*

net braider, see braider (fishing net).

net fitter, net fixer; a net mounter *q.v.* who completely fits net, including mending, see net maker.

net loom tinner, see braider, power machine.

net maker, net weaver, see braider (fishing net); *cf.* hand machine braider, power machine braider, net mender, machine braider.

net mender, net repairer, fishing net mender, see braider.

net mounter; trimmer (fishing net); (i) fits nets with ropes as guards, cords and gables and with mending twine by hand; (ii) (Dundee district) attaches rope to top, bottom, and sides of nets, i.e., guards, by means of morsels (see net creeller) or by facing mouth at screwage with a light line, attached to guinea by a clove hitch (knot) every few inches.

net creeller, dry; attaches morsels or morsels (short lines about ten inches long) to top and bottom of fishing net at regular intervals by passing looped edge round cord at edge of net and slipping open end through loop; may also attach morsels to long line or rope for line fishing and whips or knots hooks to open side.

netwasher (flannel); feeds flannel, which has been carbonised by the action of sulphuric acid, to washing machine, regulates water supply and adds soda ash as required; with draws flannel at conclusion of operation.

opener, see drum machine minder.

orange raiser (dye's); puts cloth through solutions of bichromate of soda or of potash, or through lime water, to raise, or bring out, the orange colour in basic lead salts.

paint squarer; prepares in colour, on squared paper, designs used by card cutter (386) *q.v.* in making jacquard cards.

pattern maker (not making-up); (i) is card compiler; *cf.* pattern compiler (387); (ii) is dobbie harnesser; *cf.* pattern maker (making-up) (343).

pattern man, pattern room man; (i) attends to classification, sizing, and indexing of various patterns of cloth woven; (ii) see cutter, pattern.

pattern settler, see settler (carpets).

pegger, card pegger, lag pegger, loom pegger; runs pegs in laps, pieces of wood drilled with holes, which control warp threads to be raised in weaving to allow warp threads to pass and thus decide pattern.

pegger, dobbie; a pegger *q.v.* fixing pegs in laps for dobbie looms.

picker (hair), see sorter, hair.

piece raiser (carpets); (not Kadder-minster) passes velvet pile carpet over drums through which steam is pumped, to raise pile and improve its appearance; controls machine by hand levers and regulates steam valve.

planner (flat and hemp); (i) a polisher *q.v.* who throws hanks of bleached or dyed thread and fine twine over; hook, and with a round iron bar as a lever, or pin, pulls and twists hanks to remove stiffness, and to give it a partial polish and soft texture; (ii) bags hanks of thread, etc., or opens to hanks of a machine, which set on thread in same way as hand process described above.

plaiter, asbestos; mends a machine making tubular asbestos braiding; for processes, *cf.* plaiter (braids and tapes).

plaiter (braids and tapes); braid tester (silk); places bobbins of yarn on a circle of spindles, and draws and connects threads of yarn to a circular feed; controls power-drive of plaiting machine, which causes spools to rotate forming a plait, threads being interlaced like ribbons round a maypole.

plaiter, plait maker (coir yarn); coir plait maker; places bobbins of coir yarn on spindles and starts machine; attaches end of plait thus formed to a roller, which rolls up plait as it is made, for use as mat edging.

polisher, bank yarn; mends a machine consisting of a large revolving brush against which prepared hanks of yarn in chain form are pressed, to give them a glazed appearance; regulates distance of hank from brush.

polisher, twine; (i) as for polisher (yarn); (ii) see finisher, drum; (iii) see twine dresser.

polisher, warp yarn; places beam containing a series of sharp threads behind polishing machine; guides yarn through a trough containing a polishing mixture, through screwing rollers and in contact with cylindrical brushes to bobbins upon which yarn is wound; controls power-drive of machine.

polisher, yarn polisher; polisher minder; attends yarn polishing machine; makes-up starting preparation, guides yarn-ends from bobbins through starch troughs to drying cylinders and brushes, and attends to winding-on bobbins or beam; starts and stops machine, replaces bobbins, cleans trough, etc.; sometimes specifically designated, e.g. asbestos polisher, linen thread polisher, twine polisher; *cf.* bank yarn polisher.

polisher, yarn (mosquito netting); guides cotton yarn between heavy rollers which grease it slightly, remove fluff, and also polish it.

polisher winder, see polisher, yarn.

power machine weaver (finishing net); see braider, power machine.

preparer (cotton doubling); yarn preparer; mends a machine which gives lustre to doubled cotton yarn; places hanks of doubled yarn in position over two rollers, and causes lower causing tension to be thrown on yarn by the spacing of the two rollers; starts machine; removes yarn from rollers upon which it has been spread when operation is complete.

preparer, cotton preparer (lace); yarn preparer; passes cotton through rollers which have been treated with greasing or polishing composition, to saturate it and put a gloss on it, in preparation for lace making; guides yarn from bobbins through rollers to winding on bobbins or beam; replaces bobbins as empty or full; keeps machine clean.

preparer (textile printing); prepares cloth with mordants preparatory to printing or dyeing; as for clearer.

preparer, yarn; see preparer (cotton doubling); (ii) see preparer (lace).

print filler (carpets); causes moist colour on printed yarn to penetrate more deeply into it by pressing and rubbing it by hand with a small vulcanite tool, bevelled to a blunt edge; also scrapes away superfluous colour from yarn.

print filer (textile printing), *as for* backer.
 print winder, *as for* beamer, white piece.
 process man (print works); general term for any machine minder in a textile printing works, *e.g.*, machine printer (388), mangle, *e.g.*, mangle-out, gives out to workers, work to be done by them.
 putter-up, *see* jobber, loom.
 ramie cleaner; mangle machine which, after washing process, cleans ramie yarn by rubbing.
 ramie degummer; extracts gum from ramie fibre by chemical process; passes fibre through washing machine, and thereafter through hydro-extractor, in preparation for combing.
 ramie epian's boiler (fiber (ramie epian's)); boils ramie fibre in open vat to de-gum and bleach it, in preparation for opening and carding process.
 ransucker (fishing net), net ransucker; consumer (fishing net), examines net for holes; turns faulty net over to beater, *e.g.*, and re-examines net after it has been mended.
 ratcher (band plait), *see* braider, band machine.
 reader, card reader, reader-off (lace), corrector (lace); translates design for lace on special squared paper into columns of numbers to be used by jacquard puncher (390) *e.g.*; checks and corrects punched holes in pattern cards for lace making machines.
 reader, curtain; a card reader *e.g.*, who makes in string a pattern or copy of design for curtain lace from which pattern jacquard cards are punched on power press; checks and corrects holes punched in pattern cards.
 rigger, net rigger; (Hendee district) stitches socks to cork ropes on top side of net, and to sole ropes on bottom side, and ties or laces corks on socks on top side with twine, *cf.* rigger (Fleetwood district) (393).
 rug brooder (Yorks. term), rug maker; makes rug, by hand, on a canvas ground, by piercing canvas with an awl and inserting cloth cuttings.
 safe linter; stitches protecting fabric on any part of material that is not to be dyed, to prevent its taking colour.
 sample marker; puts together samples in books or on cards and fixes tickets with reference numbers.
 semi-power machine weaver, *see* braider, semi-power machine.
 setter (carpets), setter-off; prepares loom by threading warp yarn through reed or stay, heads, and harness, taking care that yarn, if coloured, is in correct order for weaving.
 setter, chendale; a setter *e.g.*, preparing looms for weaving chendale carpets.
 setter, dry; yarn dryer (gripping); fixes bunks or skeins of yarn on reeds in drying chamber.
 setter, yarn setter, (gripping); last setter (gripping), yarn stretcher; (i) sometimes mounts yarn (yarn) *e.g.*, to set, or stretch, worsted yarn in frame, as it passes over barrow, to prevent stretching; (ii) stretches around gripped yarn in frame to prevent coaking during drying.
 shade getter, *see* blender (wool).
 ship's fender maker; knots and coils and applies rope, by hand, to make a ship's fender; may weave a centre of special rope in form of a bag or small sack, fill this with cork shavings and bind it with rope.
 silk cord maker; a plaiter *e.g.*, minding a machine which plaits silk cord from doubled silk yarn.
 silk drier; passes silk through troughs containing oxidizing oil, and over drying rollers, to render fabric water-proof.
 silk staffer; stretches skeins of silk with wooden staff, by hand, to ensure fitness before placing in loom.
 singer, singe man, singeing man, singeing machine tender, dresser

(bleaching), singer (bleacker), singer-
 8; operates engine which drives pulleys and rollers of singeing machine; passes cloth through machine, where fluff or loose fibre is removed by passing over a system of busses gas burners, or over a heated copper bar, pipe, or plates; regulates flow of gas system or of heated copper bar, pipe, or plates, and speed of delivery of cloth through machine.
 singer (fustian), *see* gasser (fustian).
 singer (wire), *see* gasser (fustian).
 singer, *see* singer.
 sizer (twine and cord), (i) *see* finisher, drum; (ii) *see* twine dresser.
 slinger, *see* hydro-extractor.
 slop padder; runs cloth through solution to tint as base for printing; *as for* cleaner.
 softener (tow), yarn softener; mangle machine for softening yarn or tow, by passing it between rollers; yarn is then ready for treatment by yarn loader (388) *e.g.*.
 sorter (flax and hemp); classifies flax or hemp after it has been machine hatched; splits up inferior fibres by breaking them on touch pan, straightens fibres over band hatches; makes bunches (laps) of fibres, and bundles these into bales according to quality and cleanliness of fibre.
 sorter, cloth sorter, sorter-out (grey room), piece sorter, grey man, grey room man (dyeing), layer-out; sorts cloth, as received from weaving departments in grey (unbleached) goods, by grades and stamps with special marks according to quality, etc.; puts together pieces which are to receive similar treatment in bleaching, dyeing, or textile printing department.
 sorter, hair; hair frailer, picker; sorts hair into grades, according to fineness, colour, soundness, etc.
 sorter, hawk, *as for* sorter, yarn.
 sorter, piece, *see* sorter (grey room).
 sorter, fibre sorter (raw silk); separates different qualities of raw silk contained in imported bale as it comes from alignment; divides moes (sorts) into bunks or bundles of regular weight and classifies by grade.
 sorter (silk throwing); sorts weighed thrown silk thread according to size and quality, in preparation for skinning to uniform form.
 sorter, skein, *as for* sorter, yarn.
 sorter (worsted, *see* dyer), *as for* sorter (grey room).
 sorter, yarn; (i) separates various grades or types of yarn, in preparation for their treatment in weaving and other departments; (ii) sorts yarn according to count (fineness), colour, etc.
 splicer, rope; joins two rope-ends, by unravelling strands at both ends, and twisting them together to form one continuous length; sometimes also inserts eyelets, thimbles, and rings, or forms loops in rope.
 splicer, yarn splicer (silk); joins together end of yarn broken in cleaning frame; passes yarn to be spliced through two mandrels on hand machine; turns two hand wheels in same direction to take twist from yarn; splices broken ends, by hand, and twists hand wheels in reverse direction to restore twist to yarn.
 splicer, thread splicer; joins ends of thread by splicing; opens out opposing ends of thread; twists separated threads, making a join in the middle; re-twists strands, by machine; cuts off projecting ends, and smooths join; sometimes specially designated, *e.g.*, cotton yarn splicer.
 splitter (raw silk); places large skeins of silk, called moes, on a revolving frame and divides, by hand, into smaller skeins for convenience in subsequent winding; *cf.* winder (371).
 starch boiler; starch mangle, starch maker, starch preparer, stiffener; mixes a solution of starch or size, *as for* dressing yarns and for filling (stiffening) and finishing piece goods; boils it at a high temperature in boilers or pans, heat of which he regulates.
 starcher, back, *see* backer.

starcher (carpets), guides yarn ends from bobbins, placed on a stand, into sheet-like form, and guides them through a series of rollers, which he lowers into troughs of hot size; starts machine; guides yarn from size troughs to drying cylinders.
 starcher (textile printing), *as for* mangle, filling (884); in small establishments, done by mangle (textile printing) *e.g.*.
 starcher (twine), *see* finisher, drum.
 starch maker, starch mixer, starch preparer, *see* starch boiler.
 steamer, cop; a conditioner *e.g.*, in charge of machine which mangles cop of yarn by exposing them to steam.
 steamster (finishing), *see* ager; *cf.* steamer (384 and 386).
 sterilizer (stock factory); prepares a scouring solution containing sterilizing solution; soaks, steams and sterilizing of stock therein; determines temperature of solution and duration of soaking.
 stiffener, *see* starch boiler.
 stove (brimstone), *see* stoves (brimstone).
 stove (brimstone), brimstone stove man, sulphur stover; *see* finisher; attends to a stove, *i.e.*, an air-tight chamber in which yarn, cloth, or knitted goods, are exposed to sulphur fumes, to dry and bleach them; (in woolen trade) hangs goods in steaming chamber; (in other textile trades) mangle a storing machine, which passes goods continuously through chamber; also attends to burning of sulphur; sometimes specially designated, *e.g.*, bossey stover, white piece stover, woollen sulphur stover, yarn stover.
 stover, stoverman (cotton cloth); is in charge of stoves in which washed cloth is stored, in order to give it a cooked, wrinkled or puckered effect; sometimes specifically designated, *e.g.* fustian stover.
 stover, yarn stover, stoverman (cotton yarn); is in charge of a store in which cotton yarn, or bank form, or a skein of yarn, is suspended in a frame, either by drawing it through stove with endless chains, or by placing it in chambers of a differential store in sequence, beginning in coolest and ending in hottest store; the frame is mechanically from chamber to chamber mechanically; regulates store temperature by turning on and off steam, as required; *cf.* dryer.
 stover, warp; warp yarn stover; a yarn stover *e.g.*, engaged in storing warp yarns.
 stretcher, yarn stretcher; (i) *see* setter (gripping); (ii) *see* tester yarn; sometimes specially designated, *e.g.* silk stretcher.
 striker, strike-off (tulle), jute strikes, *see* backer (tulle).
 twirlinging drum finisher, *see* finisher, drum.
 stripper (bossey); removes shaped bossey from shaping boards.
 staffer (dyer's); weighs out prescribed quantity of mixed dye or colour known as stock in dyeing trough, under directions of head dyer (350) *e.g.*; puts it in a laven bag, dissolves it in boiling water, and takes stuff, so prepared, to dyers, for use in dye vessels.
 surgical bandage maker, *see* finisher, surgical handage.
 swealer, swealer, *see* gasser (yarn).
 swealer, *see* hydro-extractor.
 tanner (ropes, etc.), *see* Barker (ropes, etc.).
 taper, tape sewer, tape sewer-on, *see* band sewer-on (wool spinning).
 teasel (teazel) clipper, teasel (teazel) setter; clips tracts or stalks of teasels, prickly horse heads of a plant resembling a thistle, to be required in carding and used in raising pile, clip-rod, or metal frame, for use in raising pile of fabric; presses teasels close together with metal kicker or ram; resets teasels in zig-zag by turning them round when one side is worn in use.

teaser (horsehair); (i) see curlier, soft; (ii) in charge of machine which mends, curls or opens out horsehair, after it has passed through curling room, reducing it to a loose frizzy condition, in which condition it is put in sacks for use in manufacture of bedding.

tester (thrown silk); testor "throw," i.e. amount of twist, in thrown silk, by counting number of twists in a given length; fixes given length of thread in jaws of twist testing machine, turns hand wheel until twist is removed and reads number of revolutions on dial.

tester, yarn; stretcher, yarn stretcher; tests quality of yarns by taking a given weight and winding it on a frame to ascertain its tensile strength; maintains constant given tension on thread and records breaks in yarn, which is weighed a second time, to ascertain its actual loss, i.e. loss during test due to loss of fibre, moisture, dressing, etc.; cf. wett wreather.

threader (lace), see bobbin threader (lace).

thread spinner, gold and/or silver; gold and/or silver thread maker; twisted maker; spins in a machine, gold, silver or plated tinsel wire into thread by drawing it around a fillet or body of silk or cotton for convenience of subsequent weaving into lace or cloth, cf. gold and/or silver weaver (370), or twisting into cord, cf. gold and/or silver corder (370).

thrum weaver; inserts small pieces of rose yarn or spun yarn in canvas, preparing a rough surface, or mat, which can be wrapped round rigging to prevent chafing.

ticket marker (into weaving), see billet marker.

tin man, see drying cylinder man.

tinsel maker, see thread spinner, gold and/or silver.

tipper (pile fabric); a hand outfit (footman, velvet, etc.) employed in tipping plush, i.e. cutting surface pile of plush.

trawl mender, see for beater.

trawl net maker, see for braider, power machine.

trimmer (carpets); removes superfluous material from back of carpet with knife and clippers, and remedies defects in weave with needle and thread.

trimmer (fishing nets), see net mender.

tuft cutter, wool tuft cutter (carpets); using hand knife, cuts carpet yarn into lengths, or tufts, for hand loom weaver (carpets) (370) g.v., working under direction of designer (carpets) g.v. as to quantities, lengths, etc.; horse tufts for conveyance to weavers.

tuner's assistant; machine man; makes minor adjustments to loom, under direction of tuner (356) g.v. turner (bourgeois), turns loom inside out, in readiness for certain finishing operations; pulls sock or stocking leg downwards over a bar having projecting lip which grips sock, etc.; reverses hose along bar.

turner-off (bottery); turns down, and presses in a slight pipe edge of knitted garments, in preparation for finishing process.

twine dresser; finisher - and - restor (twine), sizer (twine and cord), twine pecker; mends a bobbin-to-bobbin polishing machine, guides twine or line through a washing trough, aqueous rollers, and sizer trough to drying cylinders, and thence to polishing roller and to winding-on-spools; controls power-drive of machine.

twist collar maker; collar maker; any operative employed in collar where twist (warp yarn) is stored, condensed, and distributed for wearing, includes conditioner, damper, collar boy (399), storeman (341), wire sorter (342).

twist spinner, gold and/or silver; gold and/or silver twist maker; mends a machine which twists two, three or more threads of gold,

silver or plated tinsel, into what is known as twist, for use in embroidery work; places bobbins of different threads on spindles, threads ends of threads through machine to winding-on bobbins, controls machine by lever.

underlooker, under - overlooker, under-looker, see assistant over-looker.

velvet machine man, see cutter, velvet.

warp loom knitter, see harness gauger.

warp tier (carpets); ties ends of new warp, by hand, on to ends of warp which is nearly finished.

washer, print (carpets), see washer, yarn (carpets).

washer, silk; silk yarn washer; boiler, boiler-off (silk), copperman (silk), silk discharger, scum-hourman (silk); washes silk water in a cistern of boiled water and soap, turns it about until all gumming matter is discharged; puts silk, after boiling, in a hydro-extractor, or through rollers of a wringer or mangle, to remove liquid.

washer, yarn (carpets); print washer (carpets); bags yarn for tapestry carpets, after it has been printed and steamed, on a rocking arm in water; removes it when washing is complete.

wash-houseman (silk), see washer, silk; cf. wash-houseman (silk) (369).

waterproof (canvas); general term for any worker engaged in waterproofing canvas, e.g., mixing waterproof solution, or operating machine which spreads solution over canvas, or calendering or drying it after it has been waterproofed.

waterproof, line; mends machine which applies waterproofing solution to line; guides line through machine to bobbins on which it is wound; controls power-drive of machine, and fills troughs with dressing solution.

wax printer (dyer's, bleacher's); hems, by hand, wax preparation on cloth; cracks set wax and immerses cloth to be dyed in dye bath; that cloth is dyed where wax is broken, i.e., in irregular lines.

weigher, wet; dries samples of wet yarn, in a small oven, and takes weight before and after drying, in order to ascertain amount of moisture lost from weight per hank.

weight puller; attends to weights on back of looms, used for regulating tension of threads in warp.

whizzer, whizzer, see hydro-extractor.

wire sharpener (carpets); sharpens, with a revolving grinding roller, blades fitted at end of wires in looms weaving Wilton and other cut-pile carpets.

wusser, see hydro-extractor.

300—OTHER WORKERS.

asbestos sifter; feeds shaking machine, which separates long fibres from short, with asbestos, after it has been opened by asbestos opener (362) g.v. (long fibres go to card feeder (363) g.v. and short fibres to beater man (312) g.v.).

asbestos wadding hand; takes asbestos after it has been carded, and passes it into rollers of a machine which applies a glutinous coating to one surface of fibre.

assistant draw frame tender, see back tender (draw frames).

back tender, back minder (flax); attends feed end of roving frames, and also delivery and feed ends of drawing and doubling frames; inserts fresh sliver; keeps up supply of sliver cans, and removes them when filled; helps to clean frames, and assist reeler (362) g.v., or takes her place if she is absent.

back tender, back minder (jute); back reeler, reeler feeder; stands at back of roving frame, which draws out, and imparts slight twist to jute fibre in form of sliver, converting it into roving, supplies machine with full cans of sliver, and removes empty cans.

back minder (moulder); takes off material at back of calender.

back minder (brushing), a helper g.v. stationed at certain brushing machines; keeps even tension on cloth running into machine, reports faulty patches in cloth to machine minder, etc.; cf. guide-in (384).

back minder, stretching machine; takes off cloth, etc., at back of stretching or slentering machine.

back minder, back tender, back draw frame tender; (draw frames); assistant to draw frame tender, or an assistant to draw frame tender (362) g.v. or a jointer tender (363), working at back of draw frame, feeding it with sliver, mending slivers broken in process of drawing, and replacing empty sliver cans.

back tender (cotton carding); feeds first of two carding machines, known as breaker machine, with laps, and attends to automatic feed of second carding machine, known as finisher or condenser.

back tender (flax carding); assists carder feeder (363) g.v. by removing from carding machine, heat or lap, i.e. wool or hair in loose masses, formed thereon.

back tender (jute frames); lifter tender (jute frames), setter-on (jute frames); a young girl assistant to frame tender (363); replaces empty bobbins; mends broken threads; helps to clean machines, etc.

back tender, intermediate box; intermediate frame back tender; (jute frames); removes empty bobbins from boxes at back of intermediate frame, sections in series of fly frame or speed frame machines, and supplies full bobbins, to be inserted in frame by creeler g.v.

back tender, roving frame; rover back tender, roving back tender; roving frame lifter tender; removes empty bobbins from back end of roving frame, and inserts full ones, brought from intermediate frame.

back tender, back tender man, machine back tender (textile printing); tender (textile printing); under direction of machine printer (384) g.v., guides cloth into back of printing machine; removes, cleans, prints, rolls, back greys, blanket washers, etc.

bagger, net; soiler (silk); fills bags with silk noils, i.e. waste or short fibres removed by comb in silk dressing frame.

bagger (silk); packs raw silk and cocoon waste in bags, in readiness for boiling process.

baker (curled hair); dryer, stover (hair); places hair, previously steeped and curled, in oven to be baked; baking sets twist or curl; reads pyrometer and regulates gas by means of valves.

baler (coco-nut fibre); packs finished coco-nut fibre into bales, which he sews up when full, ready for despatch.

ball drawer, ball tier (twine); puts by hand final winding round middle of machine wound ball of twine, and draws tight; tucks in end of twine and removes ball from winding-on table.

ball sett maker (jute); arranges sets of balls or laps of jute, after they have been weighed, to make up a specific weight for placing in flaxer carding machine.

bandler (bleaching); chainer (bleaching); makes up bales of yarn into a continuous chain, or plate yarn in warp form into a chain, and ties end of one warp to beginning of another to make up a charge for kiers or bleaching vats.

bandler (carding, spinning, doubling, weaving, silk throwing, etc.); bawl jobber; based setter-on, based setter and tier, top position; fixes and repairs bands or belts which connect individual spindles or machines to main driving shaft; cuts bands to proper length and sews them in place on the machine, with a special

portable sewing machine, sometimes specifically designated according to type of machine, e.g. ring bender, spindle bender.

bender (dyeing); puts hands round bales of yarn to facilitate handling during dyeing process; links skeins of yarn in chain.

bender, piece bender (textile finishing); *sewer, sewer-down, sewer-in, stitcher, stitcher-on*; sews together, by machine, ends of several pieces of cloth, so that they may go through machines as one piece.

bender-and-sizer (silk); combines duties of bender (sizing, spinning, etc.), and of sizer *q.v.*

barker's assistant, barker's labourer; fetches and carries for barker (308) *q.v.*

barrow boy, barrow girl, barrow man; takes material from place to place in or about works in a barrow; *cf. carrier*.

batcher, batcher-up (finishing); rolls cloth on to rollers after steaming process, in readiness for further processes.

beam carrier, see giver-in (weaving).

beamer (finishing); assists mangle man (384) *q.v.*; places cloth rolls in position before mangle, and removes cloth when finished; *cf. beamer* (307, 380 and 393).

beaming lad; assists beamer *q.v.*

beamer boy; inserts wooden brackets to support strands at intervals down rope-walk, as they are twisted and formed by rope making machine, which travels down the rope-walk on rails.

bit machine boy; assists bit winder (307) *q.v.* by sorting out bobbins and bits of yarn by colour, fibre and quality.

blower, blower-up; sends cotton, after it has been mixed in cotton chamber, to opening machine through an exhaust pipe, as distinguished from a lattice or conveyor, as old mds. feeds blowing plant with opened cotton by hand; *cf. blower* (362).

bobbins (jute); bobbins gatherer (jute); gathers in and carries empty bobbins from winding flat to spinning flat; sometimes also does work of bobbins setter *q.v.*

bobbins boy (rope and twine); mangle boy (rope and twine); cleans revolving frames or spinning machines, and arranges empty bobbins on racks, ready for drier *q.v.*

bobbins cart, or for carrier.

bobbins cleaner (worsted spinning); bobbins sizer; removes, from bobbins, unused rotings (combed wool before spinning).

bobbins liddle (flax and hemp); *see box* (flax and hemp), *garn drier*, *putter box*, i.e., basket or skip, containing full bobbins of flax, hemp, jute or yarn from spinner (305) to reeler, cop winder, spool winder, etc. (307); wheels back empty bobbins to spinning frame.

bobbins seeker, see creeker (worsted spinning).

bobbins sizer (carpets); stacks bobbins in appropriate crib or bin, according to colour, etc.

boiler, soap (wool preparing); boils soap liquor in a tank, in preparation for wool scouring.

booker, cloth; cut booker; receives in warehouse cloth woven by each weaver, whose wages he calculates at current piecework rates.

booker, skip; skip sizer; keeps account of gain in its enters and leaves warehouse.

boomer (flax and hemp); carries wet yarn in hanks, after it has been bleached and washed, to boom yard, open-air drying yard, to dry; hangs hanks on to beams (booms), and straightens them out; sometimes also does work of peaker *q.v.*

box boy (carpets, etc.); *putter-in* (carpets, etc.); places washed boxes in position at bottom of yarn colour-printing (or printing) frame.

box boy (flax and hemp), *see* hobbin liddle.

box minder, box tender (silk); keeps wet (or shuttle) box of loom supplied with full bobbins.

breaker-up, see opener, bale.

brush, comb, canvas, gear, barrel, heddle, head, *see* head brusher.

brusher (hostry); passes bessey, or garments made therefrom, through rollers of a machine, which are covered with teasels or with wire, thereby brushing them and giving them a fleecy surface.

brusher, roller; brusher (woolles spinning), roller picker; cleans rollers over which yarn passes in woollen spinning.

brusher (woolles spinning). (i) *see* brusher, roller; (ii) *see* wash boy.

buncher, yarn buncher; (i) ties several bales of yarn into bunches, in readiness for succeeding processes, bleaching, etc.; (ii) *see* crofter; *cf. yarn buncher* (343).

bundler, flax, see striker-up.

bundler, waste; makes waste from various departments of mill up into bundles.

caler, ties full bobbins from spinning frame and puts them in metal cages, i.e. on vertical rods fixed in base of a wooden or metal tray.

camb brusher, sizer, varnisher, see head brusher, sizer, varnisher, respectively.

can boy (flax and hemp); *see* transporter (flax and hemp), *can walloper, silver sander*; attends delivery end of a carding machine, and presses down silver in silver can; breaks silver when can is full; replaces full with empty can; carries flax and hemp in empty cans to one process to another in preparing room of spinning mill, removes empty cans to be re-filled with fibre.

can transporter; (i) (flax and hemp) *see* can boy; (ii) (jute) *see* filler, can (full of rope and twine) *see* runner hand, *can*.

can walloper, see can boy.

capper, see catcher.

card boy; (Dundee district) carries on trucks baskets of twine for skilting.

carding room man, card room man; a labourer in card room, who holds himself at disposal of carder or under carder (353); fetches and carries, pushes truck, etc.

carrier, carrier - in, carrier - off, carrier-out; carries material, yarn, cloth, dyestuffs, bleaching solution, etc., from one room or department to another; often also works lift or hoist; sometimes specifically designated, e.g., beam, bobbin, cloth, colour, cop, piece, wolf, wool, yarn carrier; *cf. barrow boy*.

carrier, colour, see carrier.

carrier, roving, see fetcher, roving.

carrier, set; yarn stacker; has charge of ends of cops, i.e. yarn wound on paper tubes, and sees to their distribution.

carrier, skip, see dragger, skip.

carrier sizer, see runner hand, *can carrier, wool, see* packman (wool sorting).

cart boy, or for wheeler.

cart boy, top; top carrier (rope and twine); is stationed by top cart (conveyer on rails carrying the top, a grooved wooden cone used in twisting rope or rope strands) in rope walk, places top in position before rope-making process starts, and removes top and cart when process is complete.

catcher; capper; (Dundee district) stands at delivery end of softening machine, *cf. softener band*, takes hatched yute as delivered from fixed rollers and places on barrows for conveyance to drying room.

camb brusher, sizer, varnisher, see head brusher, sizer, varnisher, respectively.

cellar boy; assists conditioner (398) and store assistants (342) in cellars where yarn is stored, carrying cops, hanks, skeins, etc.

cellarman, wool (wool sorting); wool collar packer, wool packer; has charge of wool cellars, packs wool upon its arrival, cleans collars, and distributes wool for sorting as required.

cheolier (bleaching), *see* bender (bleaching).

chain minder; mangle and loads chain transporter belt, which conveys yarn, bobbins, etc., to and from spinning room.

changer, changer-off (flax and hemp), *see* doffer.

changer (lacs); changes old for new bobbins, or old pattern for a fresh pattern, on lace-making machines.

changer, roller; putter-on (textile printer's), *shifter* (textile printer's); sets and keeps printing rollers on steel mandrels, ready for mounting in printing machine, and assists in changing patterns and rollers in machines; sometimes also fills and sets colour boxes.

checker; (i) checks number of bobbins in spinning room before they are taken away; (ii) counts or records number and quantity of material received or of goods produced, at any stage of manufacture.

china grass worker; general term for any worker engaged in preparation of china grass (ramie), including hatcher (362), drawer (363) earler (363) *q.v.*, etc.

cincher, see plaiter-down.

clark; helps warper (367) *q.v.*; puts fresh bobbins into creels, and ties yarn ends.

cleaner; cleans machines of accumulated waste, etc.; often also oils machines, or sweeps floors of rooms; sometimes specifically designated, e.g., kiosk, credit, grade, loom, roller, screw cleaner.

cleaner, box; box cleaner, washer-up (textile printing); cleans colour boxes from printing machine, by washing them with a hand brush, and assists generally in machine room.

cleaner, lace; takes stains out of finished lace, under direction of over-looker (finishing) (330), using various stain removing agents and resins.

cleaner, warp; warp picker (silk); winds warp from can beam to beams, picking off slubs, or thick places in yarn, as she does so.

cleanser, yell (dialect), *see* head cleaner.

clipper (boxery); separates seamless hose, by cutting, with hand shears, connecting the three between top of cue and top or another.

collar, asbestos; mangle machine for collaring asbestos packing; puts packing in machine and controls its running.

collar (rope and twine); line reeler, line roller, rope reeler, rope walk reeler, (i) attends to rope collaring machine; guides rope to reel and controls power-drive; (ii) (Edinburgh district) coils silver on to floor at delivery end of hatching machine.

collector; collects cops (wool yarn), cloth, waste, etc., from various machines, and takes it to hoist, warehouse, cloth locker, etc.; sometimes specifically designated, e.g., cloth collector, cop collector, waste collector, etc.

collector, box; box emptier (card room); empties carding waste from boxes or troughs, of carding machine.

cooler (fasten finishing); places angled funnels upon cooling rollers and regulates, by valves, cold air draught to rollers.

cooler, piece; passes material through a bath of cold water after dyeing, to cool it and secure uniformity in dyeing.

cop doctor; inspects cops of wet yarn as they are taken from skips or weaving shed, and, if necessary, of order, puts them in correct shape.

shearer (wool combing); takes fleeces from bales and hands to wool sorter (360) *q.v.*; *obsolescent*.

stock worker; general term for any person engaged in picking, preparing, or handling flock; includes flock picker, flock sorter, card feeder (333).

stucker; cleans stucker red, used to collect loose waste from rollers of spinning mule, with a hook or picker. *synonym*, *gryndash* man, *gryndash* minder; *gryndash* picker; operates a flywheel, which passes bleached or dyed cloth in rope form through a small tank to tone or finish surface; hand-guides, *i.e.*, folds backwards and forwards, into a wagon or stacks cloth on floor as cloth leaves tank. *fold* (finishing); *condemner* and other hosiery into slabs, etc., in preparation for tying them up.

folder (silk); folds finished cloth in pleats, alternately backwards and forwards, to facilitate work of examiner (370) *q.v.*; of plates (343).

folder-up; folds cloth, etc., into convenient size for packing; sometimes, *e.g.*, in quilt weaving, is one of a pair of workers.

folding machine minder; a folder *q.v.* who minds a folding machine; *cf.* *plaiter* (343).

follower, follower-up (rope), *rope* follower; machine boy (rope and twine), *rope* follower; stands near traveller machine where strands are twisted into rope; loosens, breaks, or otherwise polishes rope with an iron bar, as required; holds on to end of rope in ropewalk after rope has been laid and while it is being reeled and coiled; and assists rope maker (373) *q.v.* generally.

focker, *focker*; lifts wool, with a fork from skanking or sleeping vat in which it is soaked, before scouring, to remove excessive dirt.

frame changer (carpets); removes frame containing empty bobbins from sizing trough, and substitutes a frame of full bobbins for same.

gaffer, gaffer-up; follows after doffer *q.v.* has removed bobbins, and sets frame going again for spinner (365) *q.v.*

gatherer, bobbin (cotton); gathers full bobbins from spinning frames, ready to be carried or wheeled away.

gatherer, bobbin (jute); see bobbin boy (jute).

gatherer (wool), as for carrier; sometimes specifically designated, *e.g.*, bobbin gatherer, quill gatherer, spoon gatherer.

gatherer, fly; sweeps up and lays waste and fly (fine dust) in spinning room.

gatherer, rag; gathers together rags, bents, etc., from various departments of mill.

gatherer, wett; gathers baskets of empty wett bobbins from looms.

gear brusher, sizer, varnisher; local or dialect terms, see head brusher, sizer, varnisher, respectively.

giver-in, see *reacher*.

grease-in (weaving); *beans carrier*; a carrier *q.v.* who carries raw beam, when completed and ready for beam, from loom or dressing room to weaving room.

greaser; collects waste from looms, and puts it in a sack to await removal.

grease man (wool); *grease* *reacher*; superintends recovery of wool fats and oils from spent scouring liquors.

greaser; lubricator, machinery oiler, oiler and greaser, shafting tender; oils and greases shafting and mill gearing.

greaser, ring, see *lapper-on*.

greaseworks man, see *grease* man (wool).

grey room hand, grey room man; general terms for any worker, male or female, in grey room, *i.e.*, room where grey, or unbleached, cloth is received for bleaching; includes *reacher*, *taker-in*, *deliverer*, *marker*, *stamper*, *sower* (419); *cf.* *grey* man (320).

gripper, see *filler* boy (flax and hemp).

guide, cloth (textile printing); *feeder*, *feeder* (textile printing); guides cloth into various machines, either that printing machines; *cf.* *lock* tender (textile printing).

half-timer; works as *creeler* *q.v.* or in other similar light employments, for half day, and attends school rest of day.

halshar (worsted); (Yorkshire term) secures loose ends after yarn has been spun on to paper tubes, by means of halshes or loops, to prevent its unravelling.

hammerman, jute; beats pressed heads of jute, as taken from bale, with large sledge hammer, or under steam hammer.

hander (wool finishing), see *raiser*, hand.

header, hands holder, see *putter-on*.

hanger, piece (cotton dyeing); hangs goods which have been treated with mordant, *i.e.*, colour fixing agent, in room, humidity of which regulated to allow of slow oxidation of mordant.

hanger, piece (textile printing); hangs cloth in festoons over rails in lefty room for conditioning purposes.

hanger, piece (woolen dyeing); hangs piece goods, after dyeing, in open air or in stoves to dry.

hanger-on; places lead sinkers in position at intervals round bottom of fishing nets, and secures them by hammering together cloth ends.

harker (flax and hemp); opens out tangled bundles of cloth after they have been boiled, in bleaching process; lays open cloth on barrow.

hard hand (silk); general term for any worker engaged in treating silk while still hard, *i.e.*, before it is *scrimmed*.

haver, brusher, sizer, varnisher; dialect terms, see *head brusher*, *sizer*, *varnisher*, respectively.

head doffer; *doffer* major; directs and controls *doffers* *q.v.*; is often also *winder-down* *q.v.*

header, yarn header; shaker, shaker and header, yarn shaker and header; straightens out and evens hanks of yarn ready for bandler (343) *q.v.*

hanks hank on a pin or cross bar; inserts stick through loop, held in both hands, shakes and strikes hank while turning it round on pin.

head brusher; head cleaner, *gen* cleaner (dialect), (local or dialect *synonym*); comb, comb, gear head, headie, breaker; applies head to a revolving brush, to clean loose fragments of size thereof.

head cleaner; *head* cleaner (dialect); (i) see *head brusher*; (ii) cleans heads; also *comb* heads; if made of cotton, with varnish to preserve them.

head comb; comb heads with a single comb, to ensure that each thread and *eplet* is perfect.

head picker; picks or separates finished knitted head threads into single heads, and gathers ends, in preparation for bundling or packing.

head sizer, see *head* varnisher.

head varnisher; head sizer, *polisher* (local *making*); (local or dialect *synonym*); comb, comb, gear head, headie, sizer or varnisher; varnishes heads (i) with a hand brush, (ii) by applying them to a circular brush, revolving in a bath of varnish, (iii) in a machine, which carries heads on a travelling band, past brushes which are kept supplied with varnish.

headie brusher, sizer, varnisher, see *head brusher*, *sizer*, *varnisher*, respectively.

helper; assists operative in charge of any machine; sometimes cleans machine, mends broken threads, etc.; sometimes specifically designated, *e.g.*, *dryer's* helper, *twister's* helper; *cf.* *helper* (cotton weaving) (370).

hoist man, hoist tender; attends to working of hoist; is often also a *bobbin* carrier *q.v.*

in-giver, see *reacher*.

inker; paints or colours specks of cloth, or burra, not dyed to shade that as rest of cloth, using a brush and suitable coloured ink or dyes.

jacker-off (lace); takes off from bobbin, waste lengths of unused threads, and winds them on to large wooden bobbins, using a small winding machine.

jagabout (slang), see *waste* boy.

jehber; adjusts and repairs machines, under direction of *overslooker* (361-362) *q.v.*; sometimes also fixes driving bands, belts, etc.; *cf.* *card* room jehber (341), *loom* jehber, *spinning* room jehber (338); sometimes specifically designated, *e.g.*, *slasher* jehber, *ring* jehber.

jehber, dyahouse; cleans dye vats and keeps them in good condition, and does other unskilled work in dye house.

jehber lady; assists jehber *q.v.*, by holding materials, tools, etc., and by fetching and carrying.

jehbing hand (rope and twine), as for labourer.

kapok worker; general term for any operative engaged in wilking or *combing* kapok, *i.e.*, vegetable down used for filling mattresses, etc.

labourer, mill labourer; fetches and carries, and does other general unskilled work in and about factory; sometimes minds one of the simpler machines, usually under supervision of skilled worker; sometimes specifically designated according to type of factory where employed, or according to work done, *e.g.*, *flax* labourer, *rope* walk labourer, *carrier*, *carrier's* labourer, *printer's* labourer.

labourer, tape; taper's labourer, *slasher's* labourer; carries sizing materials or yarn; assists *taper* (369) *q.v.*, in running yarn through sizing machinery; sometimes operates parts of machinery, under direction of *taper*.

lapper-on (cotton doubling and thread milks); ring greaser; assists *doubler* (368) *q.v.*; pieces broken ends of yarn; starts and stops machine, and removes full bobbins from spinning frame.

laster, laster, piece.

layer, bobbin, see *creeler* (worsted spinning).

layer, drum (carpets), see *filler* (carpets).

layer-down; assists *finisher* (384) *q.v.* on starch mangle and on drying cylinder following it.

layer, basket; greases hose in Pegge type of press as distinct from hydraulic press, *cf.* *pressman* (hydraulic, basketry finishing), lays hose on boards in tray of machine and pulls down top of press.

layer-on, bobbin layer-on, see *creeler* (worsted spinning).

layer-on, ring frame; *setter-on* (ring spinning); (i) as for *creeler*; (ii) (cotton doubling) puts empty bobbins on frame, for use by *doffer* *q.v.* who removes full bobbins.

layer-on, roving; roving *layer*, roving *layer*, roving *layer*, roving *layer*, roving *layer*; (i) as for *creeler* (worsted spinning); (ii) places wool, in form of rovings, in feeding boxes of drawing machine.

layer-out, yarn; lays bundles of yarn in small stacks, ready for removal.

letterer, piece letterer, see *marker* (grey cloth).

lier, bobbin, see *creeler*.

lier, roving, see *layer-on*, roving.

lifter, cloth, as for carrier.

lifter (hair curling); fetches and carries hair; feeds and cleans cording machine, and helps *tower* (302) *q.v.* generally.

lifter (rope and twine); lifts fibre from floor on to spinning table.

ligger, bobbin; bobbin *ligger-on*, see *creeler* (worsted spinning).

ligger, roving, see *layer-on*, roving.

ligger-on, rag; a labourer who, among other duties, places rags on feed sheet of any machine for treating rags, *cf.* *rag* blender, *rag* grinder (362).

linger, see *linger* tier.

lingerer (silk), as for *linger* tier.

lingo tier, lingo burner; *finger, upright direction, the small weights (fingers) on bields or short harness used in jacquard frame, to keep them and warp threads taut, when pattern is to be introduced in cloth being woven.*

linter; feeds flax into machine by hand, where it is stepped into a soft and fluffy linter; consists machine by lever.

liquor man, liquor carrier, liquor wheeler; carries or wheels on trucks, vessels containing chemicals used in making up dyes; transfers made-up dye solutions to dyeing vats.

little tenter (ly frame); see back tenter (ly frames).

little tenter, reving frame; see back tenter, reving frame.

loader (finishing); loads trucks or baskets conveying cloth from one machine or department to another.

loom attendant; carries beams of prepared warp from warping room to looms.

looser-off; looses off cloth from drying machine; pulls out stitches which held pieces of cloth together, and folds and packs cloth.

luncheon, see greaser.

lunger (net); *lunge picker;* takes away with fingers or snips off with scissors, lamps, slubs or thickened places on yarn, and other foreign matters from nets; also unravels tangles in readiness for net examiner.

lurrier, lurryman; colour carrier; as for carrier.

machine boy (flax and hemp), (Crewkerne and Somerset terms), see flax boy.

machine boy (rope and twine); (1) see bobbin boy (rope and twine); (2) see follower (rope).

machine man, machine minder (dye house); general terms for any worker minding a dyeing machine, of whatever kind; sees that material passes steadily through dye vessels, from one roller to another; sometimes specifically designated, e.g. black dyehouse machine man, colour dye machine man, dyeing machine man; includes dye grinder (381), tank dyer (381), line dyer (381), paddler (381), dargler, fly winch minder.

machinist (rope works); assists skilled worker, e.g. line maker (378), on any rope making machine; sees that rope is colour straight, and takes operations starting and stopping levers.

maggie minder, maggie worker (damp); see dunger.

mangle bend (jute), (Dundee term); see section hand.

marker, piece marker, marker-off (grey cloth); cloth stamper, letterer, piece letterer, piece marker, stamper, tally man (yarn); *typer;* puts a distinguishing mark on cloth received for bleaching, dyeing, etc., to ensure its return to proper owner, and to facilitate calculation of workers' piece-work earnings, either in a piece goods stamping machine, or by placing cloth and a colour box between a hand-operated stamp.

marker, tape measure; mends machine through which long lengths of tape are run under inked marking cylinder engraved in inches, halves, quarters, eighths, etc.; places spool of tape in machine, starts and stops machine by engaging and disengaging pulley lever, keeps ink supply replenished, etc.

measurer, braid (finishing net); measures length of net by counting meshes, dimensions of which are known, then checking work of braidier (398) g.v.

mill braid (hair washing); fetches and carries hair for hair washer g.v. and helps him generally.

minder (house); a youth who, after gaining experience in factory, works under direction for three years in plain net department, and for two years in other departments.

mixer, clay; feeds clay mixing machine with china clay and water, and takes out paste made in this clay, for use in filling mangles; cf. backer (398).

motion minder; either feeds or takes cloth from one end of a motion belt or automatic conveyor, used for conveying cloth from one department to another; cf. motion minder (398).

nidger; pulls off ragged ends left in skeins or bunks of wool.

nipper (slang); see waste boy.

noiler (silk); see hagger, noil.

nosel (nosel) maker; oral (easel) maker; wood maker (rope and twine); makes spirals or snoods by twisting twice on bunks of noselling machine, cuts through strands separating each nosel length, and hands ends.

numberer, cloth; piece numberer; stamps or stitches reference numbers on material received from other firms for finishing, for purposes of identification.

odder, heeler's; brier's porter, odler (finishing); conveys cloth on wagons to beetling machine and assists backer (384) g.v. generally.

odler (finishing); (1) see odler, backer; (2) assists calendar man or mangle (384) g.v.

oilier, oiler and greaser, machinery oilier, see greaser; sometimes specifically designated, e.g. boom oilier, double oilier.

oilier, rag; pease oil, from a leaking can, on layers of rags during blending process, to facilitate their passage through machines.

oilier, wool; a boy who assists willer (382) g.v. by sprinkling oil over the wool from a kind of can under his instructions to prevent danger of fire from heat generated during process of willowing woolen rags.

opener, hair; breaker-up; releases metal bands which bind bales and breaks open contents, e.g. wool, silk, etc., using a pickaxe or other tool.

opener, dyed piece, as for opener, pease.

opener (felt); assists willer (384) g.v. in turning out pieces during willing operations to prevent folding and damage.

opener, piece; edger; faster, scutcher; feeds and mends scutching machine, which restores cloth, from spiral or rope form for convenience in bleaching, dyeing, or printing, to open or full-width form.

opener, sheet (wool sorting); opens sacks, or sheets, of wool.

opener, silk, as for opener, bale.

opener, white piece, as for opener, piece.

orra man; does any odd jobs in a textile factory.

oral (easel) maker, see nosel maker.

picker, cotton spool; packs spools or bobbins of yarn in cases for despatch.

picker, noil; tore son (wool), westman (wool); packs noils, i.e. short wool fibres removed in combing, in bags or bales for despatch.

picker, waste; westman (wool); collects and bags waste from various departments of mill.

picker, wool; wool collar picker, see westman, wool.

pickman (wool sorting); wool carrier; a carrier g.v. who carries bales or woolpacks, opens them, etc.

printer, engraver's (textile printing); paints copper roller with varnish to prepare it for etching.

printer, hand (copper); splits up bundles of chenille for into separate skeins for fur filler (367) g.v., taking care to keep each skein in its proper order, according to its intended use in carpet.

paste maker (dye); a labourer who mixes colours into a paste for use in dyeing.

paste maker (textile printing); see maker; makes, from grain or from mineral waste or also used as a medium for applying colour in calico printing.

paste, calico, as for paste (finishing).

paste (finishing); places end of cloth on hot plate, and applies starch paste with a brush. Lays end of another piece of cloth over pasted portion, so as to fasten them together in preparation for calendaring.

pattern (pattern cards); pattern pattern cards, which are afterwards made up into pattern books.

pattern card maker; cuts samples, and fastens them by adhesive to cards, peaker; straightens out hanks of wet yarn on spars, or beams in drying yard (beam yards, or in drying shed); shakes yarn even with a short peaking stick put through loop of hank.

pegger, bobbin; places wet bobbins on weaver's board, on which are fixed a number of pegs to be in position.

pegger, wood; pegger-on (dyeing); puts cups, after they have been skivered, on plates, in preparation for dyeing.

pestle; removes stains and faults from cloth by pestolling them over with special chemicals.

picker, bag (cotton room); carries bags or bales of cotton to mixing room in readiness for hulk breaker (362) g.v.; takes away empty bags when cotton has been emptied out for mixing.

picker, bobbin (silk spinning); as for carrier.

picker, flock; flock sorter; sorts cotton or woollen fibre or waste over gridded or perforated table in preparation for willowing; picks out therefrom dirty rags, greasy waste, bits of sticks, scraps of wood or metal, and other foreign matter.

picker, (pyrogallol) inspecter reed yarn and pick; inspects reed yarn and picks out any bad adhering notes and other impurities.

picker, lap (card room); assists combler tender (363) g.v., carries laps away from machine, and cleans off short fibres from comb.

picker, lump; see lumper (nets).

picker, oskum; untwists strands of rope, and picks out yarn therefrom.

picker, rag; sorts rags which are to be torn up for shoddy or mungo.

cf. rag picker (waste reclamation) (364).

picker, reel (silk); as for carrier.

picker, roller, see brusher, roller.

picker, silk picker (silk throwing); picks notes, lumps and foreign bodies from raw silk and takes out worst family knots in thread; sometimes specifically designated, e.g. gum silk picker, lap picker (silk).

picker, sweeping picker (cotton mixing, silk doubling); collects fallen cotton and fly, and does other odd jobs in cotton mixing or silk doubling room.

picker, tare (cotton room); packs waste cotton from mixing room in tares or bags.

picker, waste (silk); see cleaner, warp.

picker, waste; picker-up; collects waste material from various departments of factory, and puts it in bags; sometimes also does work of waste sorter g.v.

picker (wool sorting); picker scraper; picks out soundest and cleanest portions of fleeces rejected in sorting.

picker-up; see picker, waste.

picker, cloth; assists cloth carboniser (361) g.v. in attending to rats in which cloth is soaked.

piecer, flax, see striker-out.

piecer, little (cotton); mends, or pieces, yarns broken in spinning; cleans parts of spinning mule, scrapes floor, fetches water and meals, and runs creels in and out for mule spinner (365) g.v.; sometimes also acts as creeler g.v.

piecer, gum silk piecer, soft silk piecer, throwing mill piecer, throwing room piecer, throwwater's piecer; assists silk thrower (374) g.v. by joining ends of silk, broken in throwing.

piecer-out, see striker-out.

picker, bobbin, see creeler (worsted spinning).

picker (grey room); strapper; arranges fresh consignments of cloth in piles, ready for layer-out (368) g.v.

plier, reving, as for layer-on, reving, pier, yarn, see creeler (worsted spinning).

ply boy; pins together broken ends of warp in loom, till weaver is free to mend them.

- pinmer, pinmer-on** (bleaching, finishing); pins edge of cloth on to pins of a pin stretching machine, and assists stretchers (384) *q.v.* generally.
- pin boy, pin narrow boy**; carries pins or cops from twist winder (307) *q.v.* to twist store.
- pitch cutter** (wool or worsted); using shears, cuts away pitch or tarry markings from sorted fleeces, resulting from animals rubbing against fences or from identification marking of wool sorter (350).
- plait, calico**; folds calico backwards and forwards, in making a given length, for convenience in passing it through calico printing machines.
- plattar-down**; *elcher, dodger*; folds wet cloth, in rope state for bleaching, by hand into barrows, or in piles on floor; or folds cloth into tiers or *elchers*; sometimes also treats it down in tiers, etc.; cf. *plaiter-down* (343).
- plucker** (wool preparing); see *cot box mender*.
- polisher** (beak knitting); see *beak*.
- porter, beetler's**; see *odder, beetler's*.
- porter, wool**; wool store man (334-340); carries bales of wool in and about warehouse.
- posse man, see drawer, card**.
- preparer for dyeing**; feeds cloth recovered from bleaching into machine where it passes through trough of caustic solution to remove lime, keeps trough filled with solution.
- presser, oil** (sponge cloth); sponge cloth presser; operates a hand or power press which squeezes oil out of greasy waste, or out of sponge cloth, in preparation for further process of cleaning.
- presser (yarn)**; takes long length of yarn, and compresses it into a small compass in a mechanical press.
- presser's devil**; assists hot presser (384) *q.v.* by carrying cloth and hot plates to and from hot pressing machine.
- puller, mixing; puller-down** (*coffers*); pulls down mixing, i.e. stock of cotton mixed in cotton chamber in definite proportions, and sends it to opening machine, either on a lattice conveyor or through an exhaust pipe.
- puller, rag**; feeds and minds a machine which tears rags into small fragments, in readiness for manufacture into shoddy, mungo, etc.
- puller** (silk); works with bale opener *q.v.*; takes a mass of matted fibre from opened bale, slashes it on to a peg as a rail, and pulls at it to loosen its matted state, in preparation for subsequent process of degumming.
- puller, waste** (press cloth); levels-up by hand, using necessary tools, press cloth before final finishing.
- puller-down** (cotton), see *puller, mixing*.
- puller-off**; (i) pulls cloth or other goods off rollers, or takes goods off at delivery end of a machine and loads on to trucks; (ii) removes chain stitching which joins fabrics for convenience in passing through continuous running machines; (iii) (cop dyeing) pulls cops of yarn off plates after dyeing and drying, and pulls end skewers.
- puller-out** (*hovery*); under direction of pressman (384) *q.v.*, removes hovery goods from steam heated hydraulic press.
- putter-in, box**, see *filler, box* (textile printing).
- putter-in** (carpets), see *box boy* (carpets, etc.).
- putter-in, roving**, see *layer-on, roving*.
- putter-on; handler, bundle holder**; assists at spinning frames, and sometimes at preparing frames, both shorting bundle and set machine in motion, under direction of spinner (303) *q.v.*
- putter-on, hand; tape putter-on**, see *bander* (carding, etc.).
- putter-on** (textile printer's), see *changer, roller*.
- raiser, hand; hander** (wool finishing); raises nap of cloth by hand, using a teasle, i.e. prickly flowerhead of a plant resembling a thistle; generally done on short cloth lengths; for usual method, see *Moser machine* (344).
- raker-in, warp**, see *reacher*.
- reacher, reacher - in, drawer's reacher, enterer's reacher, and reacher-in, warp reacher-in; giver-in, giver, warp raker-in**; takes threads from warp, and books them singly on to book held by drawer or drawer-in (398) *q.v.* who draws them through head-eye and reed.
- reacher** (beak knitting); assists beak maker (307) *q.v.* who makes or finishes off beaks by hand, by holding end of thread or cord and passing it to head mender *q.v.* to make a knot in it.
- receiver** (grey room), see *elcher*.
- reeler, line; rope reeler, rope walk reeler**, see *coiler* (rope and twine).
- reeler, twins**; attends machine winding twine on reels; threads twine through guiding eyes to reel; stops machine when required amount reeled, or to piece broken ends; doffs reels and replaces with empty reeler-up (beads, etc.); minds a reel-up machine which feeds tape into hanks or skeins, ready for dyeing or bleaching; controls power-drive of machine, and guides and attaches tape ends to twine-on reel in frame.
- remover, waste**, see *scavenger*.
- remover, yarn**, as for carrier.
- ripper, rag; waste ripper**, see *stripper, cloth*.
- roller, piece roller** (carpets); is in charge of rolling machine, which rolls carpets into convenient lengths, and brushes them with a stiff brush as they enter rollers.
- roller, line**, see *coiler* (rope and twine).
- roller** (silk finishing); stands at back of machine and makes necessary screw adjustments to rollers to ensure that silk cloth, which may have shrunk in finishing processes, comes through of desired width.
- roller** (wedding); (i) see *sixer* (wedding manufacture); (ii) rolls finished wedding into roll and wraps it in brown paper.
- rove cart; sling** for roving carrier; see *feather, roving*.
- rove lad; a borrow boy or carrier** *q.v.* who wheels baskets containing full roving bobbins from roving to spinning frames, and returns with empty bobbins.
- rower, line; rover feeder** (*pute*), see *rower, line*.
- rower, lower-out** (tape); diamantangles and straightens lengths of tape on small hand machine in preparation for reeling and blocking it, or, more usually, after it has been bleached and dried; then also winds, by hand, on to small wooden disc and pins down end, for desmutch.
- rubber**; attends a rubbing machine, which consists of a knife blade reciprocating across travelling cloth to even up surface; guides cloth into machine, starts and stops machine by hand lever; adjusts knife blade as required.
- runner, as for carrier or wheeler**; sometimes specifically designated, e.g. *bobbin, chate, shoot* (silk twist), *skip, wool runner*.
- runner hand, sen; can trumper** (rope and twine), *silver carrier*; a carrier *q.v.* who conveys cans full of silver from carding engine to drawing frames, and empty cans to delivery end of carding engine.
- runner, skip**, see *dragger, skip*.
- runner-in** (wool weaving); *foker-off* (wool weaving); conveys woven cloth to warehouse for booking, or carries and trucks bobbins, etc., in weaving room.
- runner-up** (rope), see *fallower* (rope).
- scale band** (silk); weighs silk before and after various processes to guard against undue waste, and to ensure that silk is being made to specification.
- scavenger; waste remover; sweeps, cleaners, refuse waste, runs messages, etc.**; sometimes combines that work of little piece *q.v.* or of *traveller* *q.v.*; sometimes specifically designated, e.g. *mule scavenger*.
- scraper, picker**, see *picker* (wool sorting).
- scraper** (tape); passes tape through a scraping machine, which removes creases and straightens it before it is calendered.
- seutcher**, see *opener, piece*; cf. *scutcher* (332).
- seamar** (waste), *flag seamar*; cuts off or rips open, seams of old garments, by hand or machine.
- server** (silk); general term for unskilled assistants in spinning room, e.g. *carrier, creeler, doffer, q.v.*; cf. *server* (wool) (303).
- setter, bobbin**; (i) see *creeler* (wadding spinning); (ii) sets empty bobbins in creel of spinning or roving frame; cf. *bobbin boy* (*pute*, rope and twine).
- setter, hands; setter-on; frame starter, handle starter; sets**, on wet spinning frame, special attachment holding bobbins in readiness for wet spinners (flax or hemp) *q.v.*
- setter, tube**; spinning tube *setter*, as for *setter, bobbin*.
- setter-on** (fly frame), see *back tenter* (fly frame).
- setter-on** (ring spinning); (i) see *layer-on, ring frame*; (ii) restarts ring frame after full spools have been removed and empty spools inserted.
- setter-on, roving**, see *layer-on, roving*.
- sewer, sewer-in, sewer-down**, see *bander* (textile finishing).
- sewer, hand**, see *bander* (carding etc.).
- shafting minder**, see *grosser*.
- shaker, silk; shakas silk**, by hand, to straighten it before it goes to windows (371) *q.v.*
- shaker, shaker and header, yarn shaker and header, see header**.
- shaker attendant, dust; feeds** and attends machine which shakes dust sweepings of textile mill or shed thus separating dust and fibre, and putting them into separate bags.
- shifter, bobbin; doffer** (*pute*); removes full bobbins from roving or spinning frame, and replaces them with empties; places loose yarn ends as *temper cords* correctly, ready for starting of frames.
- shifter** (flax, hemp twine), see *doffer*.
- shifter** (hacking); assists machine hatcher (362) *q.v.* by reversing grippers or clamps which hold flax or hemp.
- shifter** (textile printing), see *changer, roller*.
- shier, skip**, see *booker, skip*.
- size maker**, see *paste maker* (textile printing).
- sizer** (silk throwing); dresser, silk dresser *q.v.*; weighs a certain length of thread of given thickness, to ascertain its weight and thickness.
- sixer** (wedding manufacture); roller (wedding); runs cotton from carding engine through rollers of another machine, which are kept supplied with gum, etc., regulates supply of size to rollers.
- skewerer, cop skewerer** (dyeing), see *filler, cop*.
- skewerer, cop** (rope and twine); *tuber*; removes empty paper tubes from metal rods (*skewers*) in creel of line spinning frame, and replaces with full tubes of yarn (*cop*).
- silver minder** (*flax* and *hemp*), see *can boy*; sometimes specifically designated, e.g. *line silver minder* (rope).
- snood maker** (rope and twine), see *snood maker*.
- soaker, bobbin; bobbins wetter**; steams or wets bobbins of wet before weaving, for conditioning purposes; places bobbins for specified time in steam chamber or sprays water on a set of bobbins with a hose.
- soaker, bucket** (*cop-out* fibre); tends an open vat containing boiling water, in which the bucket *cop-out* bobbins, to facilitate separation of fibre therefrom.

soaper, soaping machine minder, (bleaching, dyeing, printing); *grout washer*; mangle a soaping machine or mangle, in which cloth is run through a trough containing a soap solution, to remove impurities, and then either squeezed by rollers, if machine is of mangle type, or wound on to a batch or beam; guides cloth through trough and rollers; starts and stops machine, i.e. lever; sometimes makes-up soap solution; sometimes specifically designated according to form in which cloth is passed through machine, e.g. open soaper, rope soaper, soaper (cotton waste); pours soft soap dissolved in water in mixing or blending of cotton waste to soften it.

softener catcher, see *twister, jute*.
softener feeder, **softener hand**; *mangle hand (jute)* (*Dundee*); places batches into open travelling apron feeding into rollers of softening machine; regulates oil and water drip feed to complete softening process.

sorter, **bobbin** (i) separates and arranges according to size, empty bobbins collected from various machines, into baskets, etc. ready for use on their proper machines; (ii) sorts full bobbins, according to kind of material used, and fineness (counts) of yarn; (iii) *see* *creeler* (wasted spinning).
sorter, flock, see *picker, flock*.

sorter, mat; separates coir and fibre mats into lots similar as to size, quality and colour.

sorter, print; prints *sorter-out*; examines and sorts-out cloth for different processes or, after colour printing, for despatch, guided by colour, design or by merchants' marks.

sorter, spool, as for *sorter, bobbin*.

sorter (tape); *sorts tape*, after it has been folded by *lapper* (343) g.v., in readiness for boxing or burling.

sorter, tube, as for *sorter, bobbin*.

sorter, waste; examines and separates textile waste, scraps of yarn or cloth, etc., picking-out dirt, pieces of cotton from wool waste, etc.; sometimes also does work of waste *picker* g.v.

sorter, web; looks out web yarns for winders, according to their various kinds, or counts.

spooler, *twines* sorts out for twining machine, spools or bobbins from baskets containing miscellaneous bobbins returned from various machines.

splicing hand (*bossy*); draws hose over splicing cutting machine and sets in motion knives inside machine which cut away splicing threads stretching across upper half of foot; occasionally cuts away threads by hand with scissors.

spreader, yarn; straightens out banks of yarn by shaking them and pulling them over a horizontal post; places them on a rail, winding each one out; then places rails and yarn spread thereon in a stove to dry.

squeezer, squeezing machine minder (dyeing); *wrencher*; passes dyed fabrics through rollers, which squeeze out most of liquid.

stamper (felt); stamps dimensions on felt goods.

stamper (flannel mill), as for *marker (grey cloth)*.

stamper, cloth stamper (grey room), see *marker (grey cloth)*.

starter, frame; handle starter, see *rotter, handle*.

steamer (woollen and worsted), wool steamer, see *crabber*; cf. *steamer (paper)* (306).

stencil (*carpets*); (i) paints trade mark, etc., on back of carpet, with aid of stencil, brush and paint or ink; (ii) stencils name of consignee and destination on bale of carpets.

stencil (textile printing); working from patterns, cuts stencils, usually celluloid, for *aerograph* (textile) (393) g.v., using hand tools.

stitcher, *stitcher-out*, see *bander (textile finishing)*.

stocker, yarn, see *carrier, wai*.

store man, wool (Scotland), see *porter, wool*.

stover (hair), see *baker (curled hair)*.

strainer, colour strainer (textile printing); passes mixed colour through strainers to separate undissolved lumps and grit.

stripper, see piler (grey room).

striker-out (flax); *flax gatherer, piecer-out*; divides scutched flax into small lots ready for burling.

striker-up (flax); *flax handler, tippler (flax)*, arranges flax, combed by machine barker (302) g.v., in bundles of even length, either for storage or for *sprender* (363) g.v.; twists ends of flax into a knob at each end of bundle (*Dundee* distich).

stringer; (i) a *bander* (spinning) g.v. working in connection with ring spinning frames; examines and repairs by tilting or replacement, driving bands or strings connecting each spindle to driving pulleys; sometimes specifically designated according to kind of spinning frame, e.g. mule stringer, ring stringer; (ii) (*silk*) after dyeing, places silk hanks, i.e. skeins, on peg and stretcher-down, by hand, to produce tension and to add lustre.

stripper, bobbin; *yarn stripper*; removes short ends of yarn remaining on empty winding or spinning bobbin, and winds them round a large bobbin.

stripper, cloth; *rag cutter, rag ripper, waste ripper*; strips lining, buttons, etc., from old garments or other rags, and rips up seams, using knife or shears.

stripper, cop (*carpets*), as for *stripper, bobbin*.

stripper (i) empties bobbins of unused thread, which is sent for waste, after completion of pattern, or before a fresh adjustment is made, (ii) (*lace finishing*) removes lace with a small stick from dressing frame, where dressing process is complete.

stripper, tube (*carpets*); removes tin tube enclosing chenille for web finishing, after completion of woven pattern.

stripper, yarn, see *stripper, bobbin*.

swager, see *waste boy, waste girl*.

swinger, beam, as for *cleaner*.

swinger, velvet; places velvet, after it has been scoured, on to a drying machine, by means of a swinging motion.

taker-away, yarn, as for *carrier*.

taker-in, *piece taker-in*; *counterman* (wool *cardroom*), *receiver* (grey room); (i) books in cloth received for finishing; (ii) receives cloth from beam, and carries or trucks it to warehouse.

taker-off, bobbin, see *defler*.

taker-off (wool wearing), see *runner-in* (wool wearing).

tally man (yarn), see *marker* (grey cloth).

Tare man (wool), see *picker, wool*.

tarret, tarring hand; (i) tares small ropes, or rope yarns, by immersing them in solution of hot tar, which he previously prepares; (ii) tares twine, cloth, or skeels, with a hand or machine brush.

tear boy, teaser, teaser; tierer; spreads colour, with brush, over sieve, or pad, on which block printer (340) g.v. presses block; also pulls cloth along table as pattern is printed.

tenter (textile printing); (i) see *back tenter* (textile printing); (ii) see *guider, cloth* (textile printing).

tenter, top (textile printing); assists *carrier* printer (385) g.v. by guiding fabric through guides and rollers at top of main cylinder of colour printing machine.

thread coupler; assists harness builder (388) g.v. by coupling mails, metal or glass, to lingoes.

tie, *tie*, in setting-up harness for jacquard looms; by means of a wire hook, threads lingoes through mails and through comb board.

theader (*carpets*); threads ends of pile yarn from speeds through tin tubes into tufting carriage, which inserts pile yarn into body of Axminster carpet.

theader, shuttle, see *filler, shuttle*.
thrower-over (*bleachworks*); passes end of unbleached cloth through pat books, i.e. guides, and thence passes it to rollers conveying it to bleach craft.

tier, ball (twine), see *ball drawer*.
tier, band; (i) see *bander* (carding, etc.); (ii) assists *bander* (carding, etc.) g.v.; (iii) ties in knots, hands which have been passed round tin rollers of ring spinning frame.

tier, bobbin; (i) ties on bobbins yarn end round fluted bobbin, after spinning or winding, to prevent unraveling, sometimes also ties number of full bobbins in bundles, to save quantities of thread; usually done by *defler* g.v.; (ii) *creeler* (*flax*, etc., loom); a *creeler* g.v. engaged on Brussels carpet or Moquette cloth looms, is particular *poma*, i.e. ties, yarn ends from full creel bobbins to old yarn ends in looms.

tier, brush; fluffs out bundles of coco-nut fibre, for use in brush making.

tier, jute; ties up selected stricks (fibre lengths) of jute before and after burling.

tiester, see *tear boy*.

tiar-on, *weight*, see *lingo tier*.

tiar-up (*heavy finishing*); ties up bundles of hosiery with twine.

tippler (flax), see *striker-up*.

topper (heads); assists *band head knitter* (397) by making loops of cotton for top of head.

tow boy, *tow carrier*; attends at burling machines, presses down, by hand, bulky tow into boxes under machine; carries graded tow from machine room to carder (363) g.v.

trailer, see *wheler*.

trader, treader-at-craft; (i) wearing wooden clebs, treads down dampened cloth in a *rommer*, tier, or vat, in preparation for burling, first process in bleaching; (ii) treads down in a *heap*, cloth which has been scoured, cf. *runner* (380), for soaking or *cl. of runner* (380), for soaking; sometimes also does work of *plaster-down* g.v.

trolley boy, as for *wheler*.

trucker, see *wheler*.

trucker, can; carries or wheels alive cans, i.e. cylinders containing carded fibre, about card room.

tuber, *spindle tuber* (cotton), as for *crack*.

tuber (rope and twine), see *skewer*, *cop* (rope and twine).

twister, jute; *spinner catcher, softer ender*; receives oiled stricks, or portions, of jute from softening machine, cf. *softener hand*, and lays them on *herrow* or wagon to condition, at same time giving each stick a twist.

typer, see *marker* (grey cloth).

warping boy (rope and twine); assists *warper* (rope yarn) (367) g.v. in placing and removing bobbins and in removing warped yarn from warping mill.

washer, blanket (textile printing); feeds and passes a blanket washing machine which cleans printing machine blankets, and removes colour deposit from them; usually a back tenter (textile printing) g.v.

washer, box (textile printer's), see *cleaner, box*.

washer, brush (*carpet sizing*); washes, by hand, brushes used in *carpet sizing*.

washer, hair; (i) prepares solution of soap and water, and fills tanks or boilers therewith; puts handfuls of hair in tank, opens out and washes it, takes it out, and hands it to another worker to dry, (ii) places hair, usually mixture of horse hair and pig hair, in a machine, which is fitted with dewaterers and half filled with hot water; soaks out hair when cleansed, passes it through wringers, and dries it in a stove; sometimes specifically designated, e.g. *horse hair washer*.

washer, hand; washes yarn or cloth by hand, with soap solution in a bath of warm water.

washer, print, *see* soaper (bleaching, dyeing, printing).
 washer, roll; roller washer; washes copper rollers used in textile printing, either with a hand brush over a trough, or in a machine.
 wash-up (textile printing), *see* cleaner, box.
 wash-house man (silk); carries bales of silk waste to and from boiling kettles in wash house.
 waste boy; drucker (unsolen spinning), dirt boy, jacobson (darning), nipper (darning), sweeper; collects waste from various machines, sweeps it up, and puts it in bags; does other odd jobs in any department of mill.
 waste girl, or for waste boy.
 waste house hand; takes waste out of sacks and delivers it to machines for opening of fibre.
 wasteman (cotton room); divides waste from various departments of mill into kinds, e.g. cotton waste, card stripe, roving waste, hard ends, packs it into separate bags.
 wasteman (wool room); packs, mails; (ii) *see* packer; waste; (iii) (woolens making) carries rags and waste from stocks to machine.
 twister (silk); passes two silk fabrics, of similar texture, face to face between heated rollers, temperature of which he adjusts, producing a smooth surface, known as waterline, on them.
 weft boy, weft lad, weft carrier; carries cops or bobbins of weft, and does various jobs in weft warehouse.
 weft girl, or for weft boy.
 weft man; (i) *see* weft room man; (ii) as for weft boy (ii) moves boxes or skips of weft from one part of the warehouse to another.
 weft room man; weft man; is in charge of weft room, and is responsible for proper weft being given to each weaver; weighs cases of yarn from spinners (305) g.v. and keeps counts, i.e. grades of fineness, in correct places; checks delivery of goods.
 weigher, hall set (jute); weighs laps or bolls of jute, and marks weight thereon; sometimes also does work of hall set maker g.v.
 weigher, bobbin (carpet manufacturer); weighs bobbins of wound yarn to ensure that correct amount has been wound on each.
 weigher, cloth; cut weigher; piece weigher; (i) places given lengths of cloth on scales to ascertain whether it is up to specified weight, also to ascertain invisible loss, i.e. loss of material in manufacture; (ii) weighs cloth in grey room, to ascertain weights in grey state, i.e. before bleaching, dressing, finishing, etc.
 weigher, dollar; jute weigher; weighs dollars, i.e. bundles of baled jute from batcher (jute) (308) g.v., and hands required amounts to breaker feeder (303) g.v.
 weigher (flax and hemp); weighs short lengths of barked fibres and passes them to spinner (303) g.v.
 weigher, piece; *see* weigher, cloth.
 weigher, set (cotton); weighs set of finished bobbins or cops of yarn for workers engaged in winding, reeling, etc.; books weights, from which workers' wages are calculated.
 weigher, set (flax and hemp); weighs case as they are (303) g.v.; marks weight on them, and arranges them in sets ready for drawer (303) g.v.
 weigher (silk); weighs boiled silk to ascertain loss of gummy matter in discharging process, also to ascertain weight of silk before it undergoes subsequent processes.
 weigher (silk waste); weighs silk waste from drawing or from dressing frames, to ascertain loss in drawing or in dressing process.
 weigher, twist; weighs cops, bobbins, or pirns of twist (cotton warp yarn) before they are put in skips or bales.
 weigher, wool; wool weighman; wool weigher-in; wool weigher-off; wool weigher-on; wool weigher-out;

weighs wool before and after sorting, to ascertain weight of each sorted group and of collective groups.
 weigher, yarn; yarn weigher-out (for winder); weighs yarn supplied to or received from winder.
 wetter, bobbin; *see* cooler, bobbin.
 wetter (grey cloth); a plaster-down g.v. who packs cloth as received from suugging or from sewing machine in steeping cylinders, in preparation for bleaching.
 wetter-out (cap dyeing); prepares cops of yarn for dyeing by impregnating them with water; cf. wetter-out (silk) (384).
 wheel boy (rope making); (i) in old-fashioned rope walks, where strands are drawn past between a post and hub of a wheel, assists in tying up strands, and turns wheel to twist strands, under supervision of rope maker (373) g.v.; (ii) stands by traveller machine, used for forming strands and laying ropes, and assists generally in this part of rope making process, under direction of rope maker (373) g.v.
 wheeler, wheeler-out; trawler, trucker, yarn drawer; takes yarn, cloth, materials, bobbins, etc., from one machine or department to another in a truck; sometimes specifically designated according to article wheeled, e.g., beam, bobbin, cloth, cut, colour, liquor, set, wheeler (or wheeler-out).
 white room man; general term for any man employed in white room, where bleached cloth is prepared for finishing; cf. white room man (307).
 winer (wheeler), winer (winker) man (printer's dye); adjusts and repairs rollers and winches over vats, winder (yarn printing), *see* filler (carpenter).
 winds-down (reining frames); winds down bobbin-end of ring or three-fifths to allow officers to remove full bobbins or spools, and insert empty ones in their place.
 winder-on (finishing); winds a winding-on frame, which winds cloth on to beams, large bobbins with cords, fanged ends, in preparation for finishing operations; guides end of cloth over tension bars to beam, which revolves and winds cloth upon itself.
 wiper, bobbin, *see* bobbin cleaner.
 wire-down, down-tirer; fastens together tail ends of pieces of cloth with a wire rod, so that they can pass through dye bath as one piece.
 wreather, *see* squencer.
 wringman (finishing); runs cloth through a wringing machine, after wet process, to squeeze out moisture.
 yarn boy, yarn lad; carries or trucks yarn from place to place in mill or warehouse.
 yarn lad, reeling room; brings bobbins of yarn to operatives on reeling frame, and removes completed hanks.
 yarn leader (rope and twine); walks down rope walk and passes twice etc., being spun, over leaders, i.e. guides, throughout length of walk.
 yarn man; conveys baskets of yarn on bobbins to hoist, for storage or despatch.

ORDER XIII.—MAKERS OF TEXTILE GOODS AND ARTICLES OF DRESS.

401.—FOREMEN AND OVER-LOOKERS.

checker, *see* examiner.
 examiner; checker, garment inspector, pattern passer, garment viewer, inspector, looker, overlooker, overseer, passer, viewer; examines and supervises work during process and on completion; reissues defective work for correction; often books out work to operatives and does other clerical work, e.g. control of wages sheets; in some trades, may also finish garments, cf. finisher (corsets) (406), finisher (shirts) (419); sometimes done by foreman g.v.; cf. examiner (425).

foreman; looker-over (handkerchiefs), overlooker, overseer; supervises work and staff, keeps time sheets and is responsible for discipline and for quality of work turned out; passes work of machinists, finishers (419), etc., g.v. and generally overlooks workshop; in small workrooms, may also perform manual work himself; in hot trade, gives out work to out-workers and sub-contractors and is responsible for assessing prices to be paid for work.
 forewoman, foremistress, or for woman; generally in charge of women workers only.
 inspector, garment inspector, *see* examiner.
 looker, *see* examiner.
 looker-over (handkerchiefs), *see* foreman.
 overlooker, overseer; (i) *see* examiner; (ii) *see* foreman.
 passer, garment passer, *see* examiner.
 putter-through; an examiner g.v. in a clothing factory who only examines garments between different processes of manufacture and returns defective garments which do not come up to a certain standard; makes simple book record of garments passing from one operative to another (putting through).
 supervisor; visits workshops of out-workers and sub-contractors to ensure that work is finished to time, and according to requirements; cf. order clerk (392).
 viewer, garment viewer, *see* examiner.

402.—SKILLED CUTTERS (NOT GLOVES, OR BOOTS).

cutler, clothier's, *see* cutter, shear.
 cutter, hand cutter; measure cutter; measures, plans from dimensions, cuts by hand, and fits material for garments; *see* customer; often further designated by kind of work done, e.g., costume cutter, hosiery cutter, knit outfit, male cutter, tailor's cutter; cf. cutter (tailoring) (404).
 cutter, measure; (i) *see* cutter; (ii) (short making) skirt fitter; plans work for shirts, collars, etc.; cuts nine patterns in stock sizes, by use of shears for raw or special shapes, for special work, takes customers' measurements and adapts pattern, which is taken from zinc shape in brown paper.
 cutter, pattern; plans and cuts pattern in paper, by hand, from measurements taken by cutter or by fitter g.v., sometimes specifically designated, e.g., corset pattern cutter, garment pattern cutter.
 cutter, shape; *see* cutter, special.
 cutter, shear; clothier's cutter, shearmans; a cutter g.v. cutting with shears, as distinguished from a hand knife cutter (403) g.v. who cuts with a machine knife.
 cutter, special; shape cutter; a cutter or measure cutter g.v. who designs new models and cuts patterns from own measurements according to design.
 fitter (dressmaking); measures and fits customers, and cuts out materials to measurements for dresses, blouses, etc.; is in charge of women and girl workers; is often assisted by second hand (405) g.v.
 fitter, shirt, *see* cutter, measure.
 shaper; a skilled cutter g.v. who gives distinctive cut to garments by trimming fronts of coats, lapels and collars with shears before machining shearmans, *see* cutter, shear.

403.—KNIFE OR MACHINE CUTTERS (NOT GLOVES OR BOOTS).

chopper (shroud making); a hand knife cutter g.v. using a guillotine.
 cutter, cut-out; stock cutter; cuts out material to stock sizes and patterns (of paper or metal), using shears, hand (or jig) knife (power driven), press, slot knife or guillotine, and causing knife edge to travel along lines chalked on material or round

edge of metal pattern; usually cuts a number of thicknesses of material in one operation; generally specially designated, e.g., blouse cutter, cap cutter, canvas bag cutter, collar cutter, corset cutter, frock cutter, hat leather cutter, helmet cutter, hose cutter (gas handles), lingerie cutter, lining cutter, pinafore cutter, polishing cloth cutter, sack cutter, shirt cutter, smock cutter, tuck cutter, tie cutter, tip and lining cutter (hats), trimming cutter, umbrellas cutter, underclothing cutter.

cutter, cutter-out (artificial flowers), artificial flower cutter, flower cutter; artificial flower stamper, flower stamper, stamper, spread fabric under press; selects metal stamp, i.e., die, required for pattern of leaf or petal, and places it carefully on fabric under press; moves lever releasing press which cuts petal; removes pressed shape and repeats operation; cf. cutter-out (paper artificial flowers) (503).

cutter, band knife; machine cutter, machina knife cutter; *Kusfenom*; a cutter g.v. using a power-driven band or machine knife.

cutter, Pickering; cutter-out (fasten clothing); a cutter g.v. who uses a Pickering machine to cut fusian cloth to pattern.

cutter, press; a cutter g.v. who places shaped knives on a number of thicknesses of material, places them in a band or power press and so cuts out leather handbags, cardboard for cap peaks, etc., and, more rarely, cloth for various purposes.

cutter (soft toys); a band knife cutter g.v. who marks out shapes on plush, felt, cloth or other material with chalk, using cardboard patterns and cuts out shapes by machine; more rarely cuts out by hand, with knife or scissors.

knifemaker, see cutter, band knife.

stamper, artificial flower stamper, flower stamper, see cutter (artificial flowers).

404.—TAILORS; TAILORS' PRESSERS AND MACHINISTS.

alteration band; alters ready made garments by unpacking, sewing and machining where necessary; may also repair or renovate old or second-hand garments as required.

bagger, see closer (clothing).

baileter, bailester-in, bailester-under, bailester-out, bailester-on, bailester; *Kor*; press parts of garments together, by hand, with long stitches, along chalk marks made by cutter (402) g.v., to hold them in position temporarily until stitched by machinist g.v.; attaches stitching canvas to fronts of coats, to collars, shoulders, etc., with rows of stitching, the thread being sewn through the under side of cloth and not showing on face; sometimes also bailets after machining to keep in place.

breechmak maker; in highest class trade makes breeches throughout, except cutting and fitting; "making" may involve a number of processes, e.g., fitting-up, sewing all seams, seat pieces and button catch, felling leg and seat seams, straps and knee caping; all stitching is done by hand; in other branches fixes parts of breeches together, as received from cutter (402) g.v.; supervises sewing of pieces together by machinist g.v., but does not usually sew them himself; finishes and retouches breeches before they have been sewn; in small establishments may be his own cutter.

cape maker; as for coat maker.

casack maker; sews up casacks, i.e., clerical robes, by hand or machine after they have been cut out by cutter (402).

children's coat maker; a specialised worker engaged in making children's

coats; does basting, sizing, padding, lining, hand sewing and finishing, but not cutting; sewing also does machining and pressing.

charco vestment maker, clerical robe maker, as for casack maker.

closer (clothing); *Sagger*; a machinist g.v. who stitches finished linings into coats, etc.

coat and skirt maker, coat and skirt hand; (i) a worker capable of making both coats and skirts throughout (except cutting), combines duties of coat maker and skirt maker g.v.; (ii) in wholesale trade a machinist g.v. engaged in machining coats and skirts.

coat maker, coat band; jacket maker; sews together, by hand or machine, parts of coats as received from cutter (402) g.v.; attaches lining in readiness for machinist g.v.; makes pockets, etc.; sometimes makes button holes and sews on buttons, but this is usually done by button hole (419) g.v.

collar maker (tailoring); stitches collar, by hand or machine, after material has been cut by cutter (402) g.v. to fit neck of coat, and attaches to coat.

collar (clothing), see finisher.

finisher, tailor's finisher; *feller*; sews by hand, sleeve linings, vest arm holes, and lining at bottom of jacket; sews on waistband, lining and buttons of trousers; tucks up button holes, sews on tabs, etc.; sometimes specifically designated, e.g., coat finisher, mantle finisher, needle hand finisher (waterproof garments), trouser finisher.

fitter, fitter-up (fasten clothing and tailoring), prepares work for machinist g.v. by fitting and pinning together parts of garments after cutting, trimming overlapping seams and edges, and adding linings, gives dimensions to other workers, e.g., coat maker, trouser maker, skirt maker g.v. as to making up; cf. cutter (402).

fitter-up (tailoring); fits garment on customer before it is finished; marks and makes alterations necessary in bespoke tailoring trade, fitting is usually done by cutter (402) g.v.

fitter, see haister.

habit maker; a specialised worker who makes riding costume throughout, except cutting or fitting; in highest class trade, this involves a large number of operations for the coat, the skirt, and the waistcoat, e.g., sewing various body seams, putting in canvas linen and working up fronts, turning in edges, making and sewing in linings, lining seamings, skirt, making knee, pomel and seat caps, pressing, turning up, felling, lining waist, pressing off.

hunting cords maker; a breeches maker g.v. who specialises in making hunting breeches.

jacket maker, see coat maker.

kilt tailor; receives cloth, cut out by kilt cutter (402) g.v., and sews it in heavy folds or pleats to form kilt, working in accordance with waist and length measurements; sews on body lining and narrow braid round top, sometimes sews on buckles and straps for tightening purposes.

ladies' tailor; a tailor g.v. mainly engaged in making women's costumes and coats.

macblast, tailor's machinist; sews by machine (hand or power) garments put together by baileter g.v.; sometimes specifically designated, e.g., coat machinist, knicker machinist, mantle machinist, raincoat machinist, skirt machinist, trouser machinist, vest machinist.

machinist, *Sva* needle; *padding*; sews or quilts padding, prepared by fitter-up g.v., into garments, using five needle machine usually operated by power.

trouser maker, trouser; trouser hand; a machinist g.v. who specialises in sewing trousers by machine.

mantle maker; a coat maker g.v. engaged in sewing, by hand or power-driven machine, mantles or loose coats of a special pattern.

padding (clothing), see machinist, *Sva* needle.

pocket band; cuts out and stitches, by hand or sewing machine, pockets for tailor made suits and coats and makes also pockets at places marked by cutter (402) g.v.

presser, final, see presser-off.

presser, hand; finishes out and sets under pressure of hot iron (tailor's goods), seams of garments during pressing, and of whole garment after completion (see presser-off).

presser, machine; places garment in position on table of steam-heated or gas-heated press, which varies in make according to class of garment to be pressed; operates press by means of levers; regulates temperature by adjusting valves.

presser, mantle; a band presser or machine presser g.v. who presses ladies' mantles, etc., during process of making and after completion, usually done by machinist g.v.

presser, seam; a band presser or machine presser g.v. who presses seams on front side of garment; usually done under pressing" g.v. also, see presser, under.

presser, special; a band presser g.v. who presses specially delicate and complicated clothing, requiring great care in the shape of ironing, colour fading, or alteration in shape.

presser, stock; a machine presser g.v. who is engaged in pressing garments made in wholesale factory for stock.

presser, trouser; shrinks trousers; presses them with hot iron, by hand or by ironing and pressing machine, and creases them down front.

presser, under; does under pressing, i.e., pressing seams open on wrong side of garment by hand, with a hot iron, sometimes does other preliminary pressing also, after such machining operation, and prior to final pressing.

presser-off; *final* presser; a hand presser g.v. who irons completed garments to give them finished appearance, generally using a gas-heated or electrically-heated iron; interposes damp cloth between iron and cloth and sets or shapes collar, sleeve etc., by shrinking.

refinisher, renovator; tailor's translator; alters and repairs garments, by unpacking, sewing, and machining as required; cleans, fits and presses garments.

robe maker, law robe maker; makes throughout robes worn by judges, barristers, university professors and students, etc., from parts cut by cutter; sews up seams, etc., by hand or with sewing machine.

skirt maker, skirt hand; if employed in a factory, may be assisted by machinist g.v.

skirt maker, skirt band; (i) in retail trade, makes skirt throughout, except cutting and fitting, does basting and finishing; may also do trimming, if required; machining and pressing may be done by other workers; (ii) in wholesale trade, a machinist g.v. who specialises in machining skirts.

slave maker; makes sleeves by sewing up parts on sewing machine; sews up linings and sews to sleeve at wrist; turns in at wrist and presses; inserts sleeve into garment and stitches and fells down seam.

slip-on maker; cuts out lining of silk, etc., and sews it together by hand or machine, as a preliminary to first fitting; sometimes slip-on is cut by second hand cutter; sews by hand; tailor, tailoress; general terms for any man, woman, or girl, employed in making tailor-made suits, overcoats, costumes, etc.; more specifically in retail bespoke tailoring a worker who receives cuttings sent by customer from cutter (402) g.v. and makes-up garment usually throughout, i.e. fits and

tacks parts together ready for try-on, bustles, in stiffings (see *bustier*), machines seams of cloth and linings (see *machinist*), presses seams (see *under presser*), sometimes folds in linings, sews buttonholes and sews on buttons (see *finisher*), presses off or smooths, sets and shapes garment by final pressing (see *presser*), etc., in wholesale drapery tailoring usually only does fitting up, basting in and pressing off, machining and finishing being done by machinist and finisher respectively; in ready made tailoring, where work is greatly subdivided, only does fitting up, and basting in of collar, sometimes specifically designated according to material, e.g. cotton tailors, cotton finisher tailors, leather tailor.

tailor's translator, see *repairer*.

trimmer, tailor's trimmer; (1) a worker in cutting room, who takes work from cutter (402) g.v. and cuts out lining and assembles trimmings, etc., ready for making-up department; sometimes keeps a stock of trimmings; cf. *trimmer* (340); (2) sews bands on military or other uniforms, by hand or machine; sometimes specifically designated, e.g., mantle trimmer.

trouser hand; (1) *see* trouser maker; (2) *see* machinist, trouser.

trouser maker; trouser hand; a worker capable of making trousers throughout, except cutting; finishes and presses trousers; in bespoke trade, sometimes sews up seams by hand.

vest hand, vest maker, *see* waistcoat hand.

waistcoat hand, waistcoat maker; vest hand, vest maker; a specialised worker (often an outworker) who makes waistcoats, by hand or machine, throughout, except for cutting and fitting; making includes a number of processes, e.g., sewing in canyas and facing edges, round sewing, felling, buttonholing and sewing on buttons, making back and sewing on.

406.—DRESS AND BLOUSE MAKERS.

alteration hand; alters and sometimes remakes, ready-made dresses, blouses and other light clothing, by unskilled, sewing and machining, where necessary, to suit customer's requirements; may also repair and renovate.

blouse hand; general term for any woman or girl engaged in any process in blouse making; sometimes refers specially to worker who makes blouse throughout.

blouse maker; sews together, by hand or machine, material cut out by blouse cutter (403) g.v. finishing and pressing according to design; in workshops where the work is subdivided, hemstitching, buttoning, buttonholing and trimming is done by other workers.

bodice maker; makes throughout, top parts of dresses or frocks, by hand and machine sewing, of material prepared by cutter or fitter g.v.

costume hand, *see* for general hand.

costume maker, *see* for dressmaker; costumes also largely made by tailresses (404) g.v.

costume maker, theatrical; theatrical costumier; a dressmaker g.v. who alters and repairs fancy costumes and theatrical dresses.

costumier, costumiers; modiste; makes, sells or deals in costumes; usually applied to a working proprietor of a small dressmaking and costume establishment, run on French lines, or dealing in French models.

costumier, theatrical, *see* costume maker, theatrical.

couturière; a dressmaker g.v. making dresses, etc., on French models.

dressmaker; frockmaker; makes dresses, frocks, etc., throughout after material is cut to measure by cutter (402) g.v.; takes or pins up on model, sews by hand and machine, finishes, trims and presses; sometimes also fits customers.

dressmaker, stage, *see* sewing woman.

dress renovator; a dressmaker g.v. who specialises in making necessary alterations and repairs to garments received for renovation; sews in new linings, etc.; usually done by alteration hand g.v.

finisher, costume; affixes buttons, hooks and eyes to costume and sews, by hand or machine, parts of costume requiring finishing off; tells seam edges.

first hand (retail dressmaking); fitter, dressmaker; fitter; in charge of workrooms in large establishment, supervising work of second hands g.v.; fits garments requiring alterations and takes customers measurements for length of skirt, etc.

fitter, dressmaker's fitter, *see* first hand; cf. fitter (dressmaking) (402).

frockmaker, *see* dressmaker.

general hand (dressmaking); a sewer or machinist (410) g.v. capable of making all or part of any dress, blouse, etc.

jumper maker (not knitted), *see* for blouse maker.

mantle maker (not tailored); makes loose coats, by hand or machine, after material is cut by cutter (402) g.v.; does all work from taking to pressing finished mantle.

modiste, *see* costumier; cf. modiste (428).

pin hand; an apprentice or learner who receives instruction from dressmaker's fitter and assists her generally.

robe maker, robe hand; makes throughout, by hand or machine, dress, *see* robe, i.e., one-piece garment as distinct from blouse and skirt.

second hand; assists fitter or first hand g.v. generally; cuts out linings and supervises women and girl workers in her room; in absence of fitter or first hand, may fit customers for alterations, etc.

sewing woman (theatre); stage dressmaker; wardrobe woman; repairs dresses and costumes used by a theatrical company; sometimes makes simpler articles herself.

skirt maker, skirt hand; makes up dress skirts throughout, by hand or machine, from parts cut by cutter, may employ either tailoring or dressmaking methods.

sleeve maker, sleeve hand; makes sleeves for dresses, robes, blouses, etc., by hand or machine, from material cut by cutter (403) g.v., but does not insert them into garments; cf. sleeve maker (403).

tacker and turner (skirts); is indispensable factory, takes and turns up hems of skirts according to measurements given by forewoman (401) g.v.

tea gown hand, *see* for general hand.

wardrobe assistant; assists wardrobe mistress (397) g.v. in folding and packing of dresses and costumes in a theatre, etc.; cleans garments of grease paint; usually a sewing woman g.v.

wardrobe woman, *see* sewing woman.

408.—CORSET MAKERS AND MACHINISTS.

assembler, *see* corset machinist.

baluster, baster; tucker; tucks, by hand or machine, tape for waistband inside skirt; usually done by corset machinist g.v.

binder; binds shaped top and bottom edges of corsets with a strip of folded material, by hand or by machine; in *zème* districts, also inserts draw-ribbon in upper edge and hose suspenders on lower edge.

boner; inserts whale bones, or strips of flexible steel under casing of corset, by hand, using a small tool to open ends, cf. *boner*.

buster, *see* steel stitcher.

casier, bone casier; sews steel or whale-bone into cases of material (cottons, and linen) by machine, for use in manufacture of stays and corsets.

closer, *see* corset machinist.

corset, machinist, corset maker; corseter, corset maker; sews together, by hand, treadle or power-driven machine (single needle or multiple needle), pieces of material which form corset.

corset sewer; hand sewer; sews on bows, and trimming, and does plain sewing generally, by hand.

corset stitcher, corset stitcher; strapper, stripper; sews, by machine, strips or findings of material to under side of corset, ready for insertion of flexible steel; stitches an extra piece of material inside strap to prevent seams working through turns raw edge of corset under strip at back and front; in big factories, where work is sub-divided, workers are sometimes specifically designated, e.g., front stitcher, back stitcher.

coverer; covers corset steel with paper, and caps ends with brass in press or by dipping them in celluloid solution.

edger, *see* trimmer.

fanner; in *Leicester*, *see* gorer; cf. *faner* (307).

finisher; sews raw edges of binding of corset, by hand or by machine, and cuts off loose ends of thread left by corset stitcher g.v.

fitter, *see* shaper.

folder, folding machinist; turns down fold of required size at each end of material and passes piece of material into a machine, which presses it into a firm drap, thus preparing seams for corset machinist g.v.

gorer; *faner* (*Leicester*); cuts out material to shape according to given measurements; cuts opening in corset and stitches in shaped gussets, by hand or by machine, after seams of corset have been closed.

hand sewer, *see* corset sewer.

ironer, corset ironer, *see* presser.

lacer (*Paris*), *see* trimmer; cf. *lacer* (328).

looper; attaches metal parts of suspenders to webbing or cloth part of corset, by hand sewing; may bind corset under riveting machine which attaches automatic fasteners.

mender; examines corsets before they are bound, and repairs any defects in stitching; also repairs worn corsets; in small workshops, is usually done by corset machinist g.v.

puller; fastens two parts of finished corset together by hooks on fronts, and pulls them ready for boxing.

presser; corset ironer, *ironer*; presses completed corset with gas or electrically or hand-iron, or with automatic iron, heated and propelled by electricity, or with rotary pressing machines heated by gas.

seamer, *see* corset machinist.

shaper; fitter; shapes top and bottom edges of corset into a smooth curve, by use of shears or knife; passes corset through power-driven shaping machine which automatically binds and machines the edge with a narrow binding issuing from the machine.

steel setter; cuts ribs, with scissors, in a fold of cloth and places front stays or clasps of corset, with clasps projecting through slits ready for stitching.

steel stitcher; buster; sews front and side steels of corsets in position, by hand or by treadle or power machine.

stripper, stripper, *see* corset stitcher.

tacker, *see* baluster.

trimmer; edger, *lacer* (*Paris*); ornaments top of corset with lace, embroidery, etc., by hand sewing or by machine.

407.—EMBROIDERERS AND EMBROIDERY MACHINISTS.

beader, bead trimmer, bead worker, fancy bead worker; sews beads, by hand, upon a fabric foundation in accordance with a set design to make bead trimming, or upon articles of dress, shoes, lace, etc., for decorative effect.
buddar (correct); *oboliste*; *see flowerist*.

chavarrat; an embroiderer *q.v.* engaged in embroidering patterns on hose and half hose, usually by embroidery machine.

clocker; embroiders clocks on hose and half hose, by hand or pantograph machine, sometimes further designated according to thread used, *e.g.*, silk clocker.

cornally hand; *see machinist, cornely*.
crawal worker; an embroiderer *q.v.* who ornaments in cross-stitch, by hand, tapestry hangings, chair covers, screens, etc., using crewel thread, a fine worsted yarn.

crochet worker; an embroiderer who designs on cloth or garments, using a crochet hook, instead of a needle; *cf.* *crochet worker* (375).

emblem maker, emblem worker; an embroiderer *q.v.* who makes or works emblems, pictorial banners, symbols, etc., by sewing bottle threads or wire on to cloth foundation, to form a design; sometimes further designated according to kind of work done, *e.g.*, *maisonic emblem maker, temperance emblem maker*.

embroiderer, embroideres; sewer; sews over a stamped pattern or otherwise ornaments, by hand, sewing with needle and silk, wool or other kind of thread, usually of various colours, articles of dress, *e.g.*, *blouses, underclothing, hosiery, and textile fabrics of all kinds, ladies' hand bags, etc.*; *cf.* *machine embroiderer*; sometimes specifically designated, *e.g.*, *maisonic embroiderer, military embroiderer*.

embroiderer, appliqué; an embroiderer *q.v.* who makes appliqué work (embroidered designs to be sewn on to dresses, etc.), either by hand or by cornely appliqué machine, on a net, gauze or cloth base, the superfluous edges of which are afterwards cut away.

embroiderer, gold; embroiders with fine gold wire threaded through an ordinary sewing needle, by hand or cornely machine, on to cloth or other groundwork, according to patterns; *cf.* *machine embroiderer*.

embroiderer, machine; embroidery machinist; an embroiderer *q.v.* who embroiders articles of dress, etc., by cornely, singular or other machine, following outline of transfer placed on material; threads required coloured silks, etc., through needle, control movements of needle by means of lever, or manipulates article to be embroidered under needle according to type of machine.

embroiderer, silver; *see for* *embroiderer, gold*.

embroiderer, Swiss; see *pantographer*.
embroidery maker; general term for embroidery workers, but more usually denotes an appliqué embroiderer *q.v.*
epaulette maker; covers a metal shape with gold lace and braid; attaches badge, embroidered by embroiderer *q.v.*, and fringe and finishes off.

fanner; see *flowerist*.

fine art needlework hand; an embroiderer *q.v.* engaged on elaborate and highly skilled embroidery (fashions) (embroidery); finishes or trims embroidery, by cutting off or sewing in loose ends of silk or thread.

flosser (correct); *janney*; closes by hand or by hand or power-driven flossing machine, the open ends of cases of knitted or steel corded with bar or fan of silk stitching in a special embroidering stitch similar to overweaving; sometimes uses machine to do additional flossing embroidery or satin stitching.

flowerist; an embroiderer *q.v.* engaged in working floral patterns.
flowerist (correct); budder; finishes off ends of gowns with flowering, or other similar pattern by hand or machine.
machinist, bonnar, as for *machinist, cornely*.

machinist, cornely or cornally; cornelling machinist; *correctly* hand; operates cornely machine by which various types of embroidery, *e.g.*, chain stitch, moss stitch, cording, braiding, are worked; guides machine over transfer by means of handle under base of machine.
machinist, hair cording; pin cording machinist; a cornely machinist *q.v.* who uses a very fine thread for cording.
machinist, tambour; tambourer, tambourer, tambour worker; operates cornely, bonnar or other tambouring machine to sew an embroidery pattern; *cf.* *cornely machinist*.

metallic fringe maker; spine metal round a fabric foundation on spinning machine; weaves thread thus produced, according to pattern, in a hand loom or weaving machine and twists or plaits wire threads, by hand or machine, to form fringe.
needleworker, art; an embroiderer *q.v.* or *sewer* *q.v.*

needleworker, fancy needleworker; general terms for sewer who decorates textile fabrics, including leader, cereal worker, embroiderer, etc. *q.v.*
pantographer; Swiss embroiderer; embroiders pattern on fabric, using a Swiss or pantograph machine; with point on metal arm, follows point by point enlarged design, sketches correct working of machine as it reproduces design; supervises shuttle girl (429) *q.v.*

scallop; an embroiderer *q.v.* who specialises in embroidering scalloped designs, by hand; uses any suitable material at edge; *cf.* *scallopier* (419).
sewer, see *embroiderer; cf.* *sewer* (419).

sewer, bead and spangle; spangle sewer, as for *beader*.

silk worker on post cards; an embroiderer *q.v.* who works designs in silk thread on post cards by hand or by use of pantograph machine; *cf.* *pantographer*.

springer; an embroiderer *q.v.* who specialises in working designs of spring, usually in form of flowers and leaves.

stripping hand (hoiery); operates a power-driven embroidery machine, guiding hose, or other stockinette garment, under needle of machine in such a way that an even stripe is embroidered upon garment in self or contrasted coloured silk thread.

Swiss embroidery mender; mends any defects in Swiss embroidery, by treadle sewing machine; after material has been embroidered by pantographer *q.v.*, first fixing material in a tambour frame; sometimes also repairs by hand, slipping-in parts of patterns.

tambourer, tambourist, tambour worker; (i) does "tambour" work by hand, *i.e.*, fine floral design formed by loose chain stitch (produced by singular to Limerick lace); in *Louvainville* trades, embroiders plain fabrics with designs in silks, tinsels, etc.; (ii) *see machinist, tambour*.

408.—MILLINERS.

bonnet blocker; shapes bonnet crowns by placing damped squares of buckram net or elastic on wooden block, and pressing heated and shaped aluminium pan over the material, in small workrooms, shapes crown with a hot iron.

bonnet front maker; a milliner *q.v.* who makes up, by hand sewing, trimmings, rosettes, bows of ribbon, etc., for bonnets.

bonnet maker; a milliner *q.v.* who makes and trims bonnets for women and children.

bonnet shape maker, as for *hat shape maker*.

cap maker, ladies'; widow's cap maker, as for *milliner*.

copyist, milliner's copyist; a milliner *q.v.* who copies model hats and new styles.

hat shape maker; wire shape maker; makes hat or bonnet shapes, of wire (and buckram, when necessary), using wire pliers.

hood maker; makes hoods or hats of soft cloth or material, by hand or machine.

milliner; makes and trims hats for women and children; sews together different materials, *e.g.*, silk, velvet; makes bows and other fancy trimmings; attaches trimmings, *e.g.*, artificial flowers, bows, feathers, to hat according to style or fashion; work usually all done by hand; often specifically designated by kind of work done, *e.g.*, *cap milliner, straw milliner, widow's milliner; cf.* *milliner* (770).

milliner's assistant; assisté milliner *q.v.*, doing the less skilled sewing and directing work.
modiste; a milliner *q.v.* dealing in exclusive models, which are made from original designs or copied from Paris models; *cf.* *modiste* (405).

sample hand; a milliner *q.v.* who makes sample hats, *see* *hat shape maker*.

wiring hand; a worker who sews, either by hand or machine, wire to blocks or other shapes to make and keep them firm.

409.—HAT-FORMERS, PLANKERS, STIFFENERS.

blocker, covered; places velvet, silk, satin, etc. on damped foundation of buckram, etc. and lays both on shape block; presses gas heated aluminium pan over material so that buckram takes required shape and outside covering of velvet etc. adheres to foundation by reason of heating in buckram; sometimes specifically designated, *e.g.*, *velvet blocker*.

blocker, band (cloth hat); presser, slogger; (i) shapes hat or cap by drawing it over a wooden block; monies and presses it with a wet pad and hot iron, by hand, and puts it in steam hot or over a hot shape; sometimes steams hat in oven before pressing; (ii) inserts finished hat in block, and presses brim with iron.

blocker, band (straw hats); band ironer (straw hats); covers straw hat with piece of damp cloth and places it inside block; presses and shapes hat with a shell iron, *i.e.*, wedge-shaped shell of metal, into which is fitted a hot iron block to give required heat.

blocker, hat; general term covering various classes of workers engaged in blocking or shaping hats, including hand blocker, machine blocker, hydraulic blocker *q.v.*

blocker, hydraulic; hydraulic hat blocker; a machine blocker *q.v.* who attends to hydraulic blocking new cloth, in which hats, placed on moulds or dishes, are subjected to great pressure.

blocker (joh dyeing, etc.); a hand blocker *q.v.* who re-blocks or re-shapes hats, after they have been cleaned or dyed, using a wooden mould.

blocker, laghorn; a machine blocker (straw hats) *q.v.* who blocks into shape "leghorns," *i.e.*, imported plaited bows.

blocker, machine; blocking machinist; (i) (felt hats) pulls felt hood by hand on to block, places heated iron over hood and sets in position in press, usually hydraulic; controls press by means of levers; (ii) (straw hats) presses hat, after it has been stiffened, in a gas-heated machine consisting of a spelter block upon which hat is placed and then raised

by foot treadle to fit into second splinter block, pressure being applied by a hand manipulated dyehoe.

bolster, see body maker (silk hats).

bodymaker (felt hats); makes bodies of stiff uniform caps, of gossamer, by shaping them by hand, on a block.

bodymaker (felt hats); general term for various classes of workers engaged in making bodies of felt hats, including fur formers, wool formers, hardener, plucker, stumper, etc.

bodymaker (silk hats); bodier, calico former, crown maker; makes foundation of hat by joining edges of three or four ply pieces of gossamer (calico dipped in shellac and ammonia) with a narrow strip of the same material, ironed down on to the block or shape; may also do dipping, see dipper.

brim rounder, **brim cutter**; **brim presser**, **cutter**, **felt hat cutter**, **hood cutter**, **fur cutter**, **velour cutter** (silk hats), **roller**; (i) takes hood of felt or other hat, etc., after it has been blocked, sets width of brim on a hand gauge, fits a hand block into crown, and runs gauge and knife round brim, by hand, to reduce it to required width; (ii) brim rounding machinist; iron board with a small rounding machine, the knife of which is set according to size required; hat is placed to come into contact with revolving knife.

brim rounding machinist, see brim rounder.

bumper; a plucker, q.v., who operates a bumping machine; places felt forms in a sort of trough, sets machine in motion, so that forms are bumped about against arms of machine, and removes forms when operation of felting is completed.

calico cutter; **crown cutter**; cuts calico by hand, with shears, for body, crown, and brim of silk hats.

calico former, see bodymaker (silk hats).

crown cutter, see calico cutter.

crown maker, see bodymaker (silk hats).

cutter; puts curl on brim of felt hat by moulding in hydraulic press after steaming, or by using steam and curling hand iron.

cutter, **felt hat cutter**, **hood cutter**, see brim rounder.

cutter, **fur cutter**, **velour cutter** (silk hats); cuts nap of fur used for fur hats, evenly, by power-driven machine; sets hats on block in machine and adjusts knives; may cut nap by hand with specially shaped shaving knives.

dipper (felt hats); dips fur hats into water, by hand, after forming.

dipper (silk hats), **calico dipper**, **calico frame dipper**; **proofer**, **proofing roller**; dips, by hand, pieces of calico into solution of shellac and ammonia (put), stretches on an iron frame; stretches three or four layers in this way on top of one another to form gossamer, from which body is cut; presses layers together by smoothing with the hand.

duster, see veneerer.

former, **fur**; feeds and attends machine which has fur to single perforated revolving copper cone, to which it adheres by motion, to make "form" of felt hats; places weighed quantity of fur on feed frame and/or carefully removes formed fur from cone.

former, **wool**; winds carded wool, by machine, on double revolving cone, to make "form" of wool hats; guides wool on to cone, ensures that wool is wound evenly and removes from cone when formed.

hardener, **forming hardener**; a plucker (hand or machine) q.v. engaged in first process of hardening or felting wooden form as removed from cone, may harden by hand (see hand plucker) or to "pinner" or bumping machine (see machine plucker), sometimes specifically designated, e.g. pinner hardener, wool hardener.

hatter, **journeyman hatter**; general term for any skilled worker engaged in making hats, including blocker, plucker, etc. q.v.

ironer (felt hats); ironer hat brim, by hand, using various sorts of iron, to set shape after curling; cf. **curler**.

ironer, **hand** (straw hats), see blocker, hand (straw hats).

machine hand, **Belgian**, see twister.

millier (felt hats); (i) see plucker (hand); (ii) see plucker (machine).

millier (straw hats); softens hard plait, e.g., palm, cane, split, by passing plait of straw between rollers of wooden or iron mill, generally operating on a hand.

opera hat maker; sews together, in silk or merino, parts of opera hat and attaches to metal frame, by hand.

parer, **brim parer**, see brim rounder.

pastor; fixes hat in position and dips, usually by hand, edges only of hat brim into proofing solution to strengthen it.

plucker, **hand plucker**; **millier**; wraps in linen cloth and dips form of wool or fur into weak acid solution, rolls, rubs, and manipulates, by hand, reducing size and thickening material into a homogeneous cone of felt.

plucker (machine); **millier**; general term for workers who feed and operate, by means of a lever, any one of a series of plucking machines, which, in sequence, gradually shrink and consolidate hat "form" to "body" or hood; includes bumper, hardener, settler, stumper, twister, etc.

presser, **brim**; presses brims of straw hats between two heated blocks of press and operates machine with foot treadle.

presser (cloth hats), see blocker, hand (cloth hats).

presser (felt hats); places hat on block and places mould over hat; operates hydraulic press, by means of lever, to produce finer shaping.

proof (felt hats); proofs hat, by hand or machine, by coating it with an alcoholic solution of shellac or similar substance.

proofer, **proofing machine** (silk hats), see dipper (silk hats).

setter (felt hats), see shaper (felt hats).

settler; a plucker (machine) q.v. who passes several forms, wrapped in cloth, through rollers of machine to fix or consolidate felted condition of wool.

shaper, **brim** (cloth hats); puts damped cloth hat on brim-shaped block and irons it by hand.

shaper (cloth hats), see blocker, hand (cloth hats).

shaper (felt hats); **setter**; places felt hat on brim shape and arches brim by steaming and holding in position until it sets, cf. shaper (other hats) (410).

steamer (felt hats); places hat in steam chest, which fixes the proof, and removes when process is completed.

steamer (straw hats); steams straw hats over copper pans with perforated bottoms, and removes hats when they are pliable.

stiffener, **fur** (hats); dips hats into a special stiffening solution and sets on rack to dry.

stiffener (straw hats); stiffens hat with solution of gum, by hand with a sponge, and dries on a rack, in preparation for shaping.

stretching, **tip stretching**; a hand blocker q.v. who carefully stretches tip (point of felt cone) of body or hood of felt hat in first stage of blocking; obsolete.

stumper; a plucker (machine) q.v. engaged in a steaming machine, which gently bumps and batters forms in trough of steam-driven machine, to assist in felting process.

swater (straw hats); (i) softens hat to make it pliable, by holding it over steam, or receives hat from steamer q.v. and shapes form, by hand, to specified head size, ready for hat blocker q.v.; (ii) restores shape of hats, bent during steaming, by placing on an ordinary blocking machine and steaming.

turner-up, **machine turner-up**; turns up edge of brim of felt hat in a power press, operated by means of a lever, preparatory to curling.

twister, **machine twister**; **Belgian machine hat**; a plucker (machine) q.v. engaged on a twister, e.g., a steam-driven machine, operated by a lever, having special attachments which come into contact with forms and twist them to help with the felting process.

veneerer (hats), **duster**; puts layer of fur dust on to a wool body, by machine; places body on block in position in machine and controls motion by means of levers.

410.—HAT SEWERS, FINISHERS, TRIMMERS.

bolster; turns in and tacks, i.e., sews by hand with long stitches, bottom part of cloth hat or cap after it has been stitched by machinet q.v., to keep it in position before the lining is inserted.

bodier; a trimmer q.v. who sews bands and sews to hats, by hand or machine.

binder; binds brim of hat with galloon, etc., by hand or by machine stitching.

bladder maker; stitches together and tapes four shaped pieces of cardboard; covers and lines, by hand, with material cut out by cutter (403) q.v., finally sewing all together and attaching a tassel.

brusher (felt hats); brushes and polishes nap on hat crown, usually on a lathe, to the buffers of which brushes are fixed, after pressing; sets machine in motion and holds hat against buffer.

brusher (velour hats); **velour finisher**; or for brusher (felt hats).

buttoner (cap); **needle hand**; covers button mould with material and clips it to inside of cap, by hand or by button machine.

cap maker; general term for any worker engaged in any process of cap making, including bodymaker, cap finisher, cap machinet, cap presser, etc.; sometimes specifically designated, e.g. Army and Navy cap maker, military cap maker.

carder, **velour carder**; raises nap of velour hat with wire brush, moved by hand or by power-driven machine.

clipper (velour hats); cuts, by hand, nap, by hand, on velour hats to make surface even.

coverer, **helmet**; **cap** hat coverer; covers body of helmet with cloth (made up from pieces by sewer) cementing it with shellac and methylated spirit or other dope.

finisher, **bright**; a felt hat polisher q.v. who polishes plain felt hats by hand, or by machine, e.g., places hat on revolving block of hydraulic machine, bringing it into contact with wheels on which glass, emery paper, or brushes may be fixed; brushes by machine (see brusher (felt hats)) and removes hat when gloss on felt is satisfactory.

finisher (cloth hats and caps), **cap finisher**; **hand sewer** (cloth hats), **trimmer** (cloth hats); sews, by hand, bands, peaks, or buttons of caps and inserts linings; finishes off cloth hats by hand generally, and stitches in labels by hand.

finisher (felt hats); **scruffer**; removes roughness on felt hat by holding against revolving glass paper covered buffer on lathe, thus giving hat a dull finish; sometimes specifically designated according to whether working upon hard or soft hats, e.g. hard finisher, soft finisher.

finisher, **felt velour**; **velourer** (felt hats); operates a machine, the metal teeth of which scratch up wool out of soft felt body, so making a "nap" in imitation of fur (real velour).

finisher, **helmet**; inserts eyelets, by hand, trims leather binding on edge of helmet, attaches ventilator, cleans helmet and attaches labels.

finisher (silk hats); places silk or plush cover on body of hat; blocks hat and applies bands from to bring out gloss in the covering material.
finisher (straw hats); attaches brim to crown of hat, by hand, and inserts lining by hand or machine.
finisher, velour, or brusher (velour hats).

finger (felt hats); presses brim of soft hat into shape with hot irons.
gagger; sews together by hand, ready for machinist g.v., parts of cloth hats or caps in special work requiring careful machining.

half blocker, see presser, cap.
hat carder, see ruffer; also carder.
helmet underder; fixes green merino, thin leather or other material under brim of helmet, by means of rubber cushion.

lining fitter-in; stitches hat linings in felt hats, by hand.

lurer, lurer-off; velourer (silk hats); gives final polish to hat, by means of heated velvet, fustian or mokinex put held against the hat revolving on a block or wheel operated by treadle. In readiness for pecking; frequently does work of tipper-off and capper (329) g.v.

machinist, sewing machinist; machine sewer; sews together, by power-driven or treadle machine, parts of material to make hats or caps; may test shape during machining by placing over wooden block; may quilt material of cloth hats; may also sew in linings, etc.; sometimes specifically designated, e.g., box machinist, cap machinist, cloth hat machinist, convolved stitch machinist, lining machinist, outside stitch machinist.

napper, see ruffer.

needle hand, see buttoner.

plush cutter; cuts out silk plush crown, sides and brims for silk hats from stock patterns, with shears, by hand; sometimes also sews hats; cf. crown sewer.

polisher, felt hat; (i) polishes plain felt hats (not veloured or beaver), generally by bright finishing process (see bright finisher), but sometimes, e.g., for men's soft felt hats, by dull finishing, see finisher (felt hats); (ii) hood polisher; takes hood (felt velour or veloured felt) after it has been steamed, but before it has been blocked, and fixes it over a bar which draws hood up and down so that its surface comes into contact with revolving wheels of polishing machine, one of which is covered with sandpaper, and one with felt.
polisher, straw hat; (i) see polisher, felt hat; (ii) see shaver.

polisher, straw hat; varnishes straw with gum and shellac, by hand, using brush, to give it a glossy appearance.

pointer (felt hats); > finisher (felt hats) g.v. who grinds surface of felt hats to get proper shape and curl; (pounce or pamon also used).

presser, cap; seam presser; Half Blocker; presses open with a hot iron, by hand or machine, seams of cap crowns, after they have been sewn by machinist g.v.

ruffer; hat carder, napper; (i) (veloured hats) a felt velour finisher g.v. who ruffs up wool, of wool felt hood, to create a nap, by bringing hood into contact with rotating machine, and finishes off in imitation of real velour, by clipping with shears and polishing with glass paper, cf. felt hat polisher; (ii) (beaver hats) takes strip of imitation beaver, lays it round hood of plain wool felt, beats and smooths it into substance of felt by repeated blows, by hand, with bristles of scrubbing brush, which is dipped repeatedly in boiling water.

Scotch bonnet maker; stitches together material for Glengarry or Balmoral bonnet, by machine; also lines bonnet and adds ribbons where necessary.
scrutcher, see finisher (felt hats).

setter, see shaper.

sewer, crown; plush crown sewer or stitcher; silk stitcher; sews together, by hand, silk or plush cover for silk hats in preparation for binder (silk hats) g.v.; sometimes done by plush cutter g.v.
sewer, hand (cloth hats), see finisher (cloth hats).

sewer, hand (straw hats); sews straw plait, by hand, spirally, to make hats and tests shape on a block at intervals.

sewer, hat leather; hat leather stitcher; attaches hat leathers inside brims of hats by hand sewing or sometimes by machine.

sewer, machine (straw hats), see machinist.

shaper (hats, etc., not felt); setter, tipper-off; shaper; brims of hats with hot iron, by hand, in accordance with pattern; cf. shaper (felt hats) (329).

shaver, cone shaver, hood shaver; Hood polisher; a finisher (felt hats) g.v. who operates sandpapering machine, which takes off or shaves irregularities from surface of hood.
stitcher, hat leather, see sewer, hat leather.

stitcher, lining, see machinist, lining-stitcher, silk, see sewer, crown.

taper; a cap machinist g.v. who sews taper over seams of unlined caps using power-driven or treadle machine with a single or double needle.

tipper-off, see shaper; also carder.

trimmer; general term for any worker engaged in putting hands, boxes or other trimmings on hats, including binder, binder, lining fitter-in g.v. trimmer (cloth hats), see finisher (cloth hats).

trimmer (silk hats, opera hats); binds edge of brim, by hand or machine; inserts lining, and attaches hand to silk hat or to opera hat.

velourer, velurer; general terms for a worker engaged in any process of making real fur velour hats from hood stock to finished condition, including brusher, carder, finisher g.v. velourer (felt hats), see finisher, felt velour.
velourer (silk hats), see lurer.

411.—GLOVE (NOT KNITTED OR RUBBER)—MAKERS, CUTTERS, SEWERS, AND MACHINISTS.

binder (fabric gloves), see glove finisher (machine).

cutter, glove cutter, skin cutter; frunker; cuts by hand, with shears, elongated pieces of leather or "tree trunks" from which gloves are to be shaped; stretches skin carefully, by hand, after rolling it in a damp cloth to make it pliable, and applies pasteboard patterns as guides for cutting.

cutter, fur; fur glove cutter, fur lining cutter; cuts out of fur skins, by hand, gauntlets or gloves to shape by pattern; selects and matches skins.

feller; sews seams of gloves with a particular kind of felling stitch on treadle machine; may also turn wrists over, by hand and machine, and sew them down with felling stitch cf. sewer.

fur sewer, fur lining maker; sews the parts of fur gloves together by hand or stitches for lining in gloves.
glove finisher (hand); fastens buttons or sews in tape at back of bottoms, by hand; finishes buttonholes.

glove finisher (machine); binder (fabric gloves); stitches tops of gloves and wrists by treadle sewing machine.

glove maker (cloth, cotton, fur or leather); general term applying to anyone who makes gloves from warp, fabric, fur or leather, including glove sewer, glove machinist g.v., lace glove maker; makes gloves or mittens throughout of lace fabric, cutting, machining and finishing.

liner, glove liner; makes gloves' linings by sewing cut parts on machine, usually treadle; stitches lining in glove, by hand.

machinist, glove machinist, machine sewer; sews together pieces of glove leather or fabric by hand, treadle or power-driven machine; cf. sewer.

pointer, glove pointer; does ornamental sewing or pointing on backs of gloves, either by hand or machine, before parts are assembled; cf. tam-bourer.

sewer, glove sewer; a hand or machine worker who sews in fourchettes, i.e. side pieces, between glove finger, closes finger pieces, sews in thumb pieces, sews up wrist slit and top of glove; may also embroider pointing (see pointer or tambourer), attach welt (see welter), sew on buttons and make buttonholes, sometimes specifically designated, e.g., drawseam sewer, hand sewer, lapseam or piglet sewer, machine sewer, overseam or drawseam sewer, prick seam or saddleseam sewer, P.M. sewer.

stamper (gloves); cuts fabric gloves from strip of material which is laid in several thicknesses (e.g. twelve) on a thick rubber block. After each cutters descend, thus cutting out twelve blanks at once; fourchettes and thumb pieces are stamped separately; lays up fabric in required number of thicknesses in readiness for cutting.

tambourer; a pointer g.v. who embroiders, by hand, on a tambour frame, wide silk points on glove backs before gloves are made up; cf. presser (gloves) (425); also called.

trucker, see cutter; cf. puncher of trunks (425).

welter, glove welter; attaches welt, or narrow piece of leather to edge of slit and top of glove, by hand felling or by machine sewing; cf. feller.

412.—BOOT AND SHOE MAKERS AND REPAIRERS (General).

boot and shoe maker; cordwainer, shoemaker; an operative capable of making a complete boot or shoe from beginning to end, i.e. cuts soles and uppers, attaches parts by sewing, by hand or machine, or by riveting in the case of soles, makes and fixes heels and finishes boot or shoe; sometimes specifically designated, e.g., last shoe maker, cloth boot maker.

cobbler (boots), see repairer.

cordwainer, cordwinder, see boot and shoe maker.

hand-sewn maker; cuts out various parts of boot or shoe, uppers and soles from measured patterns, parts or skivers edges, stitches seams by hand or with sewing machine, or takes uppers, made by other workers (not necessarily in same establishment), and makes hand-sewn boots or shoes through-out; making includes closing of upper, tacking on last, channelling and sewing on white and soles, attaching heels and finishing.

jobbing boot maker; a boot and shoe maker g.v. who makes boots and shoes for individual customers, usually in own workshop; as a rule, also undertakes repairs.

last slipper maker; a boot and shoe maker g.v. who specializes in making last slippers.

patcher; fixes leather patches to uppers of boots or shoes (in repair work) by hand or machine, either by stitching, or by applying adhesives.

repairer (boots); cobbler; repairs boots and shoes by resoling, heel, stitching, or patching the leather; operations include ripping off old sole or heel, cutting sole or heel leather to shape, cutting, shaping and sewing in new welt, if necessary, filling in sole, attaching sole by hand or machine sewing or riveting, cutting out, skivving and attaching patch to upper with solution or by sewing machine, attaching rubber soles and heels.

snob; slang term for journeyman boot and shoe maker, or for jobbing maker or for repairer g.v.

surgical boot maker; a hand-sewn maker *g.v.* who makes through-out, by hand, boots specially designed to accommodate malformations of foot or leg.

translator (boots); a repairer *g.v.* who buys discarded boots; repairs and sells them.

412.—BOOT, SHOE, SLIPPER—CLICKERS AND CUTTERS.

clicker (boots and shoes); a cutter; cuts out parts of uppers of boots and shoes, either by hand, using a brass-bound template which he places on leather and cuts round with a knife; or by operating a power-press, which descends upon pattern placed on the leather and presses out shape required, cuts edge to best advantage, allowing for differences in stretch of leather; sometimes specifically designated, *e.g.*, press clicker, ideal press clicker.

cutter (boots), *see* clicker (boots and shoes).

cutter, fittings; a clicker *g.v.* who cuts fittings, straps, bars, findings, etc. by hand, with a sharp knife and brass-bound template or by machine-press, fitted with shaped knives.

cutter, insole; insole stamper; a pressman *g.v.* who specialises in stamping out insoles, by power press.

cutter, lift; lift chopper; a pressman *g.v.* who cuts heel lifts, *i.e.* layers of leather from which he has built up.

cutter, lining; cuts out linings for boots or shoes, by hand or machine.

cutter, middle sole; a pressman *g.v.* who specialises in cutting middle soles (light-leather sole between insole and bottom sole) of light leathers.

cutter, pattern; cuts out, by hand, from sheet zinc or cardboard, patterns of different parts of uppers of boots and shoes for use of clicker *g.v.*, following drawings made by designer; is often also a designer *g.v.*

cutter, puff; a pressman *g.v.* who specialises in stamping out toe-puffs, *i.e.*, pieces of leather used for stiffening toes.

cutter, rough stuff, *see* pressman.

cutter, slipper; a clicker *g.v.* who specialises in cutting slipper uppers.

cutter, sole; a pressman *g.v.* who specialises in cutting soles for boots and shoes.

cutter, stiffening; a pressman *g.v.* who stamps out from pattern, in a machine power-press, stiffeners, *i.e.* pieces of leather used for strengthening and shaping backs of boots and shoes.

cutter, vamp; a clicker *g.v.* engaged in cutting vamps and golasches (parts of upper forming front and side) of boots and shoes by power-press.

designer (boots); designs new styles of boots and shoes; makes drawings from detailed measurements, of various parts of upper, from which designs, patterns are made for use of clicker *g.v.*

insole stamper, *see* cutter, insole.

lift chopper, *see* cutter, lift.

presser, pressman, shoe pressman; ranger, rough stuff cutter; operates a machine press, which cuts out rough stuff, *i.e.* soles, insoles, middle soles, stiffeners and heel-lifts of boots or shoes, from leather; places a knife, having required shape, on leather and pushes it under press, which comes down and presses out article, sometimes specifically designated according to kind of machine used, *e.g.*, revolution pressman, Yankee pressman, or kind of foot-press being made, *e.g.* slipper presser, slipper pressman.

ranger, *see* pressman.

split lift machine man; a lift cutter *g.v.* operating a machine which cuts split-lifts, *i.e.*, the first piece of leather to form heel.

414.—OTHER DEFINED-SKILLED—BOOT, ETC., FACTORY OPERATIVES.

all-rounder; (1) an "all-round" heel and shoe operative, *i.e.*, one capable of performing any process in boot-making; (2) *see* laster.

bath-as' boot maker; stitches together, by hand or machine, parts of bath-as' boots or shoes, cut out by cutter (413) *g.v.*

bagger; turns lining and leather inside out and stitches lining of a boot or shoe on to upper, by hand or power machine, in such a way as to form a bagged edge.

bender; top stretcher, top iron machine operator; receives boots from channel closer (429) *g.v.*, applies wax mixture, coloured to suit boot, round edge of sole and insole, with small shoemaker's iron, to finish sole and to hide channel.

blinder; stitches binding on edges of uppers of certain kinds of boots, shoes or slippers, by hand or machine, *e.g.*, canvas shoes, carpet slippers.

blocker of fronts, boot front blocker; crusher, vamp crusher, vamp crusher; a blocker (upper closing) *g.v.* who fits together fronts of boots or shoes, *i.e.*, vamps and toecaps, on a block ready for stitching up.

blocker, sole, *see* moulder, sole.

blocker, stiffener, *see* moulder, stiffener.

blocker (upper closing); fits together by hand parts of uppers, both lining and leather, of a boot or shoe on a block or last, holding them in position by paste or other adhesive, ready for stitching up.

brower; attaches upper of a boot to inner sole with waxed thread on a last, either by hand or by holding in place on cutting machine.

brest maker (boot heels); heel breaker; cuts breast on front of heel square, either by hand with a sharp knife, or by machine.

bustaker, sole, *i.e.* chases down, lip of channel (in sole of boot) after sole is fastened to welt, by prising channel, by hand, with ornamented edge of a wheel, or by prising channel of sole against a similar wheel revolving by machine power.

carpet slipper maker; assembles parts of carpet slippers, cut out by cutter (413) *g.v.*, and stitches together by machine.

castler; takes plaster cast of foot where any special form of foot is required, as in case of malformation, *e.g.*, bunions.

closer; boot and shoe top or upper maker, gusset hand, taker-in; stitches together by hand or power-driven machine, parts of uppers of boots and shoes, after they have been skived, *priced*, skived.

crusher; stitches linings together, joins them to boots by power machine, and binds those edges of upper that are not to be attached to sole; sometimes specifically designated, *e.g.* hand crusher, repairs closer.

concol operator; a lasting machine operator *g.v.* who operates a Concol (power) lasting machine.

crimper, *see* blocker of fronts.

curler (boots), *see* moulder, stiffening.

edgester; dresser; removes surplus point (or ink) from front portions of heel with a blunt knife, by hand.

finisher; general term for any worker who is engaged on any of the finishing operations, including heel-parer (429), plougher-out (429), feet-parer (430), heel-parer (429), stitch cleaner (429), pricker-up, edge settler (429), wheeler (429), seamer (429), inker (429), stainer (429), bottom finisher (414), champer-down (429), top-trimmer (429), etc. *g.v.*

finisher, bottom; a finisher *g.v.* employed in finishing, *i.e.*, securing, binding, burnishing, etc., bottoms of boots or shoes on sand or glass-paper polishing lath.

finisher, slipper; a finisher *g.v.* who specialises in finishing slippers.

fitter, boot plate; in some small factories, affixes heel-plates and toe plates to boots, by hand, with hammer and tacks or small nails.

fitter, elastic springs; cuts and inserts elastic springs (*i.e.* pieces of elastic fabric set in side) in boots or shoes, by hand sewing or with sewing machine.

fitter, stock; (1) examines, grades and keeps records of leather intended for bottoms, *i.e.*, soles, insoles, stiffeners, heels, according to quality, *cf.* sorter; (2) *see* fitter-up (ankle).

fitter (upper closing); assembles parts of uppers of boots or shoes, and fixes them together with adhesive solution, by hand, ready for blocking; *cf.* blocker.

fitter-up; prepares materials for workers by assembling the various pieces of boots and shoes after they have been cut by cutter (413) *g.v.*

fitter-up (ankle); sole maker, piece, stock fitter; a fitter-up *g.v.* who assembles parts of bottoms of boots or shoes, *i.e.* sole, middle-sole, etc., in preparation for their being fixed together by tack or cement.

flowerer, embroiderer; an ornamental pattern in silk thread, on caps and vamps of cloth, satin, etc., boots or shoes, before they are made up, using a bender machine.

folder; feeds leather into machine which automatically turns in correct edge ready for machining of uppers of boots and shoes; sometimes specifically designated according to machine used, *e.g.* lufkin folder, rapid folder.

grader (skins), *see* sorter in skin room.

gusset hand, *see* closer.

heel attacher, *see* heeler.

heel attacher, machine, *see* heeler, machine.

heel attacher, wood; a machine heeler *g.v.* who attaches wooden heels to boots and shoes by pressure and snapping machine.

heel breaker, *see* breast maker.

heel builder, *see* heeler.

heel compressor; heel crusher, heel presser; puts shaped pieces of leather for heel building in a mould or press, nails them together, by machine, and then presses them into a solid heel in a power press under a pressure of several tons.

heel coverer, wood; assembles wooden heels of suede or velvet shoes with paste, and attaches, by hand, pieces of fabric similar to that with which shoes are made.

heel crusher, *see* heel compressor.

heeler; heel attacher, heel builder, lift maker; builds up lifts, *i.e.* layers of leather of which heel is made; attaches heel thus made to sole with nails, usually by machine; in repairing heels, or repairs heels.

heeler, machine; heel feeder, heel nailer; machine heel attacher; a heeler *g.v.* who operates, by means of a lever, a heel-attaching machine, which is fed with nails; heel is held in position by a clamp and nails are pressed through the inner sole into the heel.

heel presser, *see* heel compressor.

insole tacker-on; tacks on insoles to uppers of boots or shoes, temporarily, by hand or machine, on a last, in preparation for stitching.

instructor (boot and shoe machinery); a skilled boot making machine operative who explains and teaches use of new machines; usually employed by machinery makers.

ironer, boot, *see* tracer.

plagger, *see* digger.

seiner (boots and shoes); joins together edges of upper to last, but seam of boot, etc., with power-driven sewing machine; may also use rubber cement in lapping joint.

laster, laster-up, boot laster, shoe laster; all-rounder, laster-up, puller-on, puller-down, puller-up, puller (ankle); (1) in hand-sewn boot trade, fixes inner sole to last, and fastens inner sole, *i.e.* turns edges with a

knife to fit the last; places last in sole upper and then on pivot or lashing jack; taking edge of upper in press, strains leather over and along depressions in last to remove superfluous expanding properties of leather and so assist upper to keep its shape; places edges of upper and tacks on to inside ready for hand sewing or stitching by insole; (ii) see machine operator, lasting.

laster, second, see re-laster.

lift maker, see heeler.

lining maker; a closer g.v. who stitches together parts of linings of uppers of boots and shoes, usually on a power machine.

looker-over; examines shoes or boots after they have been finished, and rejects any defective work; usually done by passer or foreman (401) g.v. machine operator, machine feeder, boot machine operator; general term for any person engaged in any machine operation in manufacture of boots, shoes, etc., including pressman (413), skiver, folder, perforator (429), lasting machine operator, machine sewer, closer, rounder, slugger, etc. g.v.

machine operator, bagging; a bagger g.v. holding parts of sole to be stitched or closed under needle of a bagging machine.

machine operator, band saw; operates hand saw machine used for splitting skins in a boot and shoe factory.

machine operator, Blake; Blake sterner, Blake sole sewer; a sole attacker g.v. who stitches sole of boot or shoe on to insole (inner sole) with a Blake sewing machine; with heavy sewing machine worked by power, after insole has been attached to upper.

machine operator, Campbell; a sewing machinist g.v. operating a Campbell sewing machine, i.e. heavy sewing machine run by power.

machine operator, Cyclops; holds sole against rotating hub of power-driven Cyclops machine and adjusts pressure between sole and glass or sandpaper, till sole is smoothed as required; starts and stops lath by hand or treadle lever, sometimes also does work of leveler (425) g.v.

machine operator, gemming; operates a gemming power-machine, by which solutioned canvas is placed over insole and pressed into contact, a machine attachment keeping lip of channel erect.

machine operator, Keate; a sewing machinist g.v. operating, by lever, a Keate power sewing machine.

machine operator, lasting; boot laster, laster, laster-up, shoe laster; a laster g.v. operating a lasting machine; usually a team worker who operates one of a series of pulling-over, drafting, pleating and tacking machines which reproduce mechanically the operations described under laster g.v.; fits last into machine and controls operations by means of levers.

machine operator, Mackay; a sole attacker g.v. operating a Mackay sole attaching machine, a power machine of heavy type.

machine operator, M.S.; a sole attacker g.v. operating a M.S. (middle sole) sole-attaching machine, a power sewing machine of heavy type.

machine operator, pressure; general term for worker operating one of several types of machine which exert pressure, e.g. in sole moulding, heel compressing, leveling; includes moulder, heel compressor, leveler (419) g.v.

machine operator, seat nailing; feeds and operates a machine which nails seats, i.e. pieces of leather which form base for attachment of heels, to bottoms of boots or shoes.

machine operator, sewing, see machinist, sewing.

machine operator, sew-round; stitches on turn shoe power machine, through a channel, soles to

uppers after they have been attached to last by turn shoe maker g.v.

machine operator, skiver; a skiver g.v. operating a skiving machine to reduce thickness of leather; sometimes specifically designated according to machine used, e.g. Amazon skiver machine operator, Fortuna skiver operator.

machine operator, sole sewing; a sole sewer g.v. operating a sole sewing machine (usually a power machine) to attach upper to sole through channel with big stitches and strong thread.

machine operator, stitching, see machinist.

machine operator, top piece heel, see slugger.

machine operator, welt; stitches welt of a boot or shoe round the upper and attaches to bottom sole by machine sewing on a last. machinist, sewing machinist; sewing machine operator, stitching machine operator; a sewer g.v. operating a hand or power machine for sewing parts of uppers of boots and shoes together, or for stitching uppers to bottom; sometimes specifically designated, e.g. slipper machinist.

machinist, golosh; a closer g.v. who closes goloshes (as distinct from vampes) of shoes or slippers by machine; cf. vamps.

machinist, side lacing; a machinist g.v. who operates a power machine which attaches side linings to upper of a boot or shoe; usually done by closer g.v.

moulder, counter, see moulder, counter.

moulder, puff; moulds toe-puffs (stiffeners for toes) on press machine.

moulder, sole; sole blocker; (i) tacks dampened sole on to last and moulds it to shape of last by hammering, by hand. (ii) places damp and pliable sole on prep foot mould in machine and, by releasing a lever, brings pressure of several tons to bear upon sole, thus shaping it; sometimes specifically designated, e.g. moulder moulder, middle sole moulder, outside moulder, sole moulder, stiffener, counter, stiffener blocker, stiffener chaper, counter moulder; moulds stiffeners (pieces of leather used for strengthening backs of boots or shoes) by placing them in machine and operating levers, away either by hand with hand tools against a block.

preparer for pull-over; arranges upper of boot or shoe on last, with hammer and tacks, ready for laster g.v.

preparer for welt sewing; cleans or trims with a knife upper after it has been lasted, and opens inside channel in upper through which welt is to be stitched.

preparer, welt; dips welt in water, tempers it and cuts, usually by machine, or by hand with special knives, a groove or channel in preparation for sewing between sole and upper; cf. preparer for welt sewing and channeller (429).

pricker-up (boots); decorates welt edge by pricking up leather between each stitch on welt with point of a specially shaped tool called a "prick-stitch" (i). stitch separator.

puller-on, puller-over, puller-up, see laster.

pump hand, see turn shoe maker.

re-laster; second laster; fits boots and shoes on an easily-fitting iron last for operation of lasting, after removal of making last.

rough stuff man; performs all operations in rough stuff room or press room, in small factory where work is not sub-divided, including cutting, fitting-up, channelling, etc.; cf. rough stuff cutter (418).

rounder, sole rounder; pares edge of sole of boot or shoe to final shape, either by hand with knife or by means of paring machine, the knife of which travels round shoe fixed on block and cuts superfluous leather; sometimes specifically designated,

e.g. insole rounder, middlesole rounder, outsole rounder.

screw, screw operator; operates machine which attaches middle soles of certain heavier kinds of boots to insoles by means of screws, keeps and sorts in position on machine; sometimes specifically designated, e.g. standard screw operator.

sewer; general term covering all persons engaged in joining parts of upper of boot or shoe, or attaching upper to bottom by hand or machine sewing and including sewer (hand), sewing machinist, stitcher, etc. g.v.; sometimes specifically designated, e.g. Blake sewer, Blake sole sewer, welt sewer.

sewer, sole sewer (hand); a sole attacker g.v. who attaches soles, temporarily held in place with nails, to welts or to middle soles (if boots are not welts) by hand sewing; makes holes with a roundawl in a channel in sole, previously made by channel opener (425) g.v. and passes thread through each hole in turn; sometimes specifically designated, e.g. nurse sewer (children's shoes).

sew-round maker, sew-round man, sew-round hand, see turn shoe maker.

shank attacker; attaches "shank" or waist-piece of boot or shoe, i.e. piece of stiff leather stretching from heel to ball of foot, to insole, with solution or rivets.

slaker, see taper.

skiver; pares off (skives) edges of various parts of upper or bottom of boot or shoe, either by hand, with sharp knife, or (more usually) in a skiving machine, to reduce thickness of leather where joining is necessary; sometimes specifically designated according to part of shoe to be skived, e.g. middle sole skiver, puff skiver, shank skiver, split lift skiver, stiffening skiver, welt skiver, or according to type of machine used, e.g. Fortuna skiver.

stecker, stecker-up, slider; places dampened leather of bottom or welt of boot or shoe on a last, and smooths away bumps or irregularities by hand, using wooden rollers; now usually done by leveler (425) g.v. on leveling machine.

slugger, heel slugger, slugger machine operator, slugger machine operator; top piece machine operator; feeds holes in machine with nails of different sizes according to height of heel; clamps inside of shoe (heel end) in position over nails and holes and operates, by means of a lever, slugging machine, which attaches top piece of heel to sole (already attached to foot or shoe).

soaker; presses and smooths soles of thin leather or leather substitute inside bottom of boots or shoes by hand to cover up any roughness due to stitching, riveting, etc.; after last have been pasted by sock paster (429) g.v.; sometimes also pastes soles.

sole attacker; rivets bottoms of boots or shoes to uppers by holding in place in riveting machine.

sole maker, sole presser, see fitter-up (under).

sole tacker-on; attaches insoles temporarily to uppers of boots or shoes, by hand, with hammer and tacks, while uppers are on last, preparatory to parts being sewn or stitched to go skin.

sorter; (i) examines, grades and keeps records of leather according to quality; in some factories, confines his work to sorting leather for uppers, as distinguished from stock fitter g.v.; (ii) sorts different parts after they have been cut; sometimes also does work of fitter-up.

sorter in skin room; grinder (skins), sorts meat pieces of leather according to substance, thickness and quality, examines them for flaws, and allocates them to most suitable work; keeps records of stocks, etc.

stiffener shaper, *see* moulder, stiffener.

stitcher; a sewer (hand) *q.v.* using a square instead of a roundawl.

stitcher, fair; a sewer *q.v.* who specializes in "fair stitching," *i.e.* machining, on power sewing machine, a row of stitches round well of Blake-sewn boot, or shoe, giving appearance of well-sewn work.

stitcher, book (slipper); a sewing machinist *q.v.* operating a lock-stitch power machine for stitching together slippers.

stitch separator (boots); operates a power machine, with an attachment like a blunt knife, which rakes well of welted boot or shoe between stitches, *cf.* pricker-up.

table hand; examines uppers after completion, cuts off odd ends of thread; hammers off, by hand, before it is passed to working room.

taker-in, *see* closer.

taker-off; withdraws last from boot or shoe, by hand, when it has been made, in preparation for final processes of treading and boring.

taper, taping machine operator (boots); *stitcher*; stitches tapers by machine, down seams, in closing upper of a boot or shoe, to strengthen seam for lasting.

tapper (shag), *see* laster.

tapper-up; laminates out, by hand or machine, corrugations in leather of upper of a boot or shoe, formed when upper is pulled in inside, and tacked down on to it.

tee-casser; stitches toe-caps on to uppers of boots or shoes by hand or machine.

top ironer, top iron machine operator (boots), *see* header.

top or upper maker, boot and shoe, *see* closer.

turner; boot ironer; places boots or shoes on a form or tree, and irons them, with hand iron, heated by gas, to improve shape and appearance.

turner, *see* turn shoe maker.

turn shoe maker; pump hand, semi-round hand, semi-round maker, semi-round iron, turner; makes turn shoes, *e.g.*, dancing pump, by sizing upper to sole, both inside out, on a last, by means of tacks; machines by hand or power to sew round machine operator *q.v.* after machining, turns shoe right side out, thoroughly dries and re-lasts it to mould it to shape.

vamp dresser, vamp crimpier, *see* blocker of fronts.

vampier; a closer *q.v.* who stitches "quarter" or golet to vamp, or front part of a boot.

wax-threader; fixes thread in machine, which passes it through wax containing half proportion of grease, and keeps spools supplied with thread so treated.

welt heater; heats out, by hand, with hammer or stick, or with small machine hammer, welts, after they have been sewn in; *cf.* channel closer (429).

welther; a sewer *q.v.* who stitches welt to bottom sole by hand or with sewing machine.

416.—CLOG MAKERS.

clicker (clogs); *overman* (clogs); cuts out clog uppers of leather, by hand or machine; in case of hand work, cuts out uppers with sharp knife, according to social pattern laid on leather.

clogger, clog maker; *pattern worker*; makes clogs throughout by hand; cuts sole, makes upper, and nails it to sole, *i.e.* completes occupations of sole cutter (426) and of clog seatman *q.v.*; term also frequently used as synonym for either.

crimper (clogs); cuts ornamental patterns, by hand, on leather uppers of clogs.

laster (clogs); tacks uppers on to last and hammers out, while wet, to shape; usually done by seatman *q.v.*

machinist, clog machinist; clogs leather uppers of clogs by power machine; as for closer (414).

pattern maker, *see* clogger.

seatman (clogs); *see* clicker (clogs).

seatman, clog seatman; cuts out and makes upper of leather, by skiving edges and stitching seams by hand or sewing machine, or by riveting; attaches sole thereto by closely nailing a strip of leather along overlap of upper and edge of sole, and finishes clog, repairs clogs; sometimes also does work of clog closer (429) *q.v.*

skiver (clogs); thins edges of leather where it overlaps in closing uppers of clogs, by passing with a knife by hand or a machine; sometimes done by clicker *q.v.* in small works.

418.—UMBRELLA, PARASOL-MAKERS, COVERERS, REPAIRERS.

blinder; binds, by hand sewing with tape or narrow strips of same material as cover, certain umbrellas and parasol parts (runner, open cap and hinge of rib).

cap milliner; sews up rosettes of silk or other material for lining under open cap of umbrella or parasol; *stitcher*; work now usually done by tipper *q.v.*

capper; secures metal cap to stick of umbrella or parasol, by hand; hammers it against metal plate in bench through which stick protrudes; drives pin through both stick and cap and into smooth; work usually done by finisher *q.v.*

coverer; sews up seams of segments of silk or other material to make covers, usually by hand; fastens cover to tips of metal ribs and ties on or braces seams to ribs by hand stitching; *cf.* tipper.

finisher; *stitcher*; attaches ferrule and open cap (see capper) to umbrella or parasol after cover has been fitted; attaches wooden ferrule by means of glue.

stitcher; (i) *see* finisher; (ii) *see* frame maker.

frame finisher; covers joints of umbrella frame with protective leather pads; removes roughness and finishes frame in readiness for covering.

frame maker, umbrella frame maker; *stitcher*; assembles frame of umbrellas or parasol from manufactured ribs and other parts; threads out topers threading of ribs on notch with wire; gouges out slots in sticks on power-driven lathe and fixes springs, runner and notch; often also repairs broken frames.

hammer; sews seams and hems of umbrellas or parasol covers by hand or machine; *cf.* coverer, machinist.

ironer; irons covers, after their attachment to frame, by means of special iron, heated by gas or electricity, or by other means.

machinist, sewing machinist; sews seams of umbrellas or parasol covers by treadle or power-driven machine.

maker-up, marker; marks or makes up stick of umbrella or parasol with pencil, for position of spring slots, using a standard board, work usually done by frame maker *q.v.*

mender; restorer, repairer, *finisher*; (i) darts, patches and otherwise mends umbrellas or parasol covers, (ii) replaces ferrules or broken ribs, repairs springs, etc.

parasol maker, as for umbrella maker.

restorer, repairer, *see* mender.

sunshade maker, as for umbrella maker.

tipper, tier, tipper and tier; fastens covers to holes near tips of metal ribs of umbrellas or parasol, and ties on or braces seams to ribs by hand or by machine; makes rosettes, etc., for attachment under open cap; attaches hand or button pieces; *cf.* coverer.

translator, *see* mender.

trimmer, parasol trimmer, sunshade trimmer; sews trimmings, fringes, etc., of lace, silk, etc., on parasol, by hand.

umbrella maker; (general term for any worker capable of performing all the operations or engaged in any process of umbrella, etc., manufacture, including capper, coverer, frame maker, finisher, tipper *q.v.*

417.—SACK MAKERS.

bag hand, as for sack hand.

bag maker, *see* sewer; sometimes specifically designated according to kind of bag made, *e.g.*, jute bag maker, mail bag maker, mail bag maker, sand bag maker.

bag woman, *see* mender.

hinder (sacks); a palm and needle hand (419) *q.v.* who strengthens edges of coal or grain sacks, etc., by sewing hindings-need or rope thereto.

dermer, bag dermer, *see* mender.

machinist, bag machinist, sack machinist; machines sewer, stitches seams of bags or sacks, and hems round top; repairs sacks, etc., by stitching or darning, sizing sewing or darning machine.

machinist, overhead; overhead sewer; a machinist *q.v.* sewing with an overhead or overcast stitch.

mender, bag mender, sack mender; bag dermer, bag patcher, bag repairer, bag woman (sack materials), dermer, patcher, repairer, sack patcher, sack repairer; mends sacks and bags, either by darning with twine (by hand or machine) or by sewing on patches (by hand or machine); often specifically designated according to trade, *e.g.*, grain sack mender, mail bag mender.

patcher, bag patcher, sack patcher, *see* mender.

repairer, bag repairer, sack repairer, *see* mender.

sack doubler and sewer; repairs, folds, and keeps in order, sacks chiefly used as sulphate of ammonia and paraffin wax works.

sack hand; works in sack or bag house, of works where bags are used, on sorting, mending, slaking and folding, stencilling or branding sacks; includes sack mender, sack machinist, sack repairer, sack cutter (403), sorter (429) *q.v.*

sack maker, *see* sewer.

sewer, bag sewer, sack sewer; bag sewer, sack sewer, bag stitcher; sews seams of material for bags or sacks, by hand or machine; sews or hems round top; sews on tapes, rings, hooks, etc.

sewer, overhead, *see* machinist, overhead.

sewer (vegetable oils); sews up oil cakes in bags ready for delivery.

sheet woman; a mender *q.v.* who keeps in repair, sheets used as sacks for wrapping.

stitcher, bag, *see* sewer.

418.—TARPAULIN, TENT, SAIL AND OTHER CANVAS GOODS-MAKERS, DRESSERS, REPAIRERS (not elsewhere enumerated).

bentite cloth maker; a dresser *q.v.* who coats coarse pale fabric with tar, by machine, for use in lining mine-shafts and air-ways; feeds cloth through sets of rollers and a bath of tar, winds it on rollers of machine and hangs to dry in loops on poles.

canvas buoy maker; stitches, by hand, canvas covering over body of buoy and attaches guide loops and ropes.

dresser; *stitcher*; dresses cert sheets, canvas goods or duck cloth, by applying, by hand, other preservative with a brush; sometimes specifically designated according to article dressed, *e.g.*, canvas dresser, cart sheet dresser, mail sheet dresser, *cf.* spreader.

dryer; carries oiled material to drying room, hangs it on rack and removes it when dry.

hot plater, *see* plater.

lasher; sews short lengths of rope (lashings) with palm and needle on to canvas buoys for fishermen's nets, so that wooden lid of buoy may be lashed fast.

oller; see *drawser*.

polisher; hot plaster; warms garment made of material that has been dressed with oil by laying it upon a flat plate, heated by steam, to keep garment pliable; removes it, and applies polish containing a drying material, by hand with pads, to remove stickiness.

proofers; *waterproofers*: (1) feeds with material and operates proofing machine, driven by gas or electricity, which carries material through rollers, into bath of proof, and through drying rollers. (2) applies dope or proofing solution with brush by hand.

repairer; repairs tarpaulins, sheets, etc., by reproofing (see *drawser*) and by sewing, patching and darning by machine or palm and needle method; cf. palm and needle hand (419); sometimes specifically designated according to article repaired, e.g. cart sheet repairer, oil sheet repairer, sail sheet repairer, van or wagon sheet repairer.

repaizer (canvas hose); repairs canvas hose by darning fresh material into damaged portion, or by solutioning patches over worn or weak parts.

sailmaker, sail sheet-maker; designs, cuts by hand or with hand knife, sews by palm and needle method (cf. palm and needle hand (419)), and prepares ship's sails, boat covers, deck awnings, etc.

sailmaker, fire; makes chute fire escapes and canvas jumping sheets; cuts them with a sharp hand knife, sews them with palm and needle, and attaches ropes and cords wherever necessary.

sewer; sews railway covers, or sews up seams of other canvas goods, e.g. knapsacks, gun bags, web equipment, by machine or palm and needle; sews on tapes, buttons and other fittings; cf. machinist, palm and needle hand (419).

spreader; feeds roll of cloth or canvas between rollers of spreading machine which cuts fabric with rubber dough, far or other waterproofing material, cf. *drawser*.

tatave hand, hangs braided cloth over poles of lines in drying room after it has been spread.

test finisher; sews on hooks and eyes, attaches wooden cleats to guy-lines, and does other similar finishing operations with palm and needle to finish tents.

tent machinist, sew tent sewer.

tent mender; a tent sewer q.v. engaged in mending tents.

tent sewer; tent machinist; stitches seams of canvas tents by feeding edges of parts to be joined under needle of power sewing machine; sews ropes into canvas and stitches parts of tent, too thick for machining, with palm and needle, cf. palm and needle hand (419); punches and stitches small holes in canvas for ropes to pass through, by machine; sews round big holes by hand.

waterproofers, see *proofers*.

stitching machine, or with ribbon under needle of ordinary power sewing machine.

blinder, hat leather; *leatherer*; oversees binding of cord or silk cane on edge of hat leather bands by stitching machine.

blinder (hoesery); operates a power-driven machine which automatically stitches braid to the cut edges of knitted goods.

blinder, mat; strengthens and makes up the edges of mats and Axminster, Brussels and tapestry carpets by stitching in tape or similar woven fabric with sewing machine, employing plain hem stitch, forming boxed hem or blanket stitch according to quality of carpet; cf. fringe (carpets and rugs).

blinder (rubber boots and shoes); *sewer* (rubber boots and shoes); feeds and operates power sewing machine, the two bolsters of which feed thread and other bindings, to hind edge of boots and shoes.

blinder (tailoring); sews, by hand or machine, band of binding to top of trousers and edges of coats and waistcoats, to give extra strength.

body maker (shirts, etc.); operates a power machine stitching seams of shirt and vest-bodies; inserts gussets, makes and puts in sleeves and stitches in yokes; sometimes also folds, using single needle machine; cf. *seller* (shirts) and *seamer*.

broader, see *hinder*, hat leather.

broader; trims, or embroiders, garment by hand, according to transfer, by hand or machine, after other processes are complete.

breaster, cf. *for machinist*.

button holder, button hole maker, button hole worker; cuts button hole in fabric by hand with scissors or with mallet and chisel; sews round cut edges by hand with button hole stitch, usually enclosing a piece of gum or cord for stiffening purposes; fastens off at one end with a bar of stitching, see *barrier-off* (429); see also *machinist*, button hole; sometimes specifically designated, e.g., collar button holder, cuff button holder.

case maker; sews up seams by hand, or by treadle or power-driven sewing machine, three sides of featherbed, cushion, etc., covers; sometimes specifically designated, e.g., bolster case maker, cushion case maker, mattress case maker, pillow case maker.

centre maker (shirts); *front machinist*, *front maker*; machines front or centre of shirt; does front pleating, when required, by arranging tucks and stitching them by machine.

cloth pleaser (textile mill); sews together with gauding needle, pieces of cloth to form one piece, preparatory to washing, dyeing and bleaching processes in textile mill.

cockade maker; works emblems, rosettes, etc., by sewing textile or wire threads on to cloth foundation to form a design; sometimes specifically designated, e.g., military cockade maker.

collar maker, shirt; sews together, by treadle or power-driven machine, strips of linen or other material cut out for making collars or cuffs, neckbands and wristbands of shirts.

collar runner; assembles plies or folds of fabric and stitches, usually on power machine, first row of inside stitches, in preparation for collar to be "turned out," or reversed, for final sewing.

colour maker; works in colour loft of H.V. Dyeing, machining up bunting and flags for the post.

cover (upholstery); sews curds, tassels, etc., on to cushions, curtains and upholstered furniture covers by hand or machine.

cover of coat hangers; winds strip of material bandage-fashion round wooden coat-hanger, and stitches it in place; or makes two stalls by cutting out and sewing strips of material, draws one on at each end of hanger, and sews them together round base of hook, sometimes pulls hanger with cotton wool.

cravat maker, a tie maker q.v. who sews linings on to ready-folded cravats, both inside out, with a foundation of blackram between, when seven turns cravat and lining right side out.

crosser; a machinist q.v. who finishes handkerchiefs, hemming remaining two sides, left by runner-up q.v., and gives neat finish to each of four corners; sometimes also does running up.

cuff maker; sews together strips of linen or other material received from cutter for making linen cuffs, by hand or machine; cf. shirt collar maker.

daily sewing women, cf. *for sewing maid*.

danner (not in textile mill); mends torn or defective material or garments, by hand or machine; intervenes self-coloured thread both ways in damaged areas of fabric, reproducing the pattern both as to weave and colour as far as possible.

drawn thread worker; cuts and draws out warp or weft threads over certain sections of material, and with needle and thread makes a remaining weft or warp threads according to pattern supplied by designer.

dungaree maker; a sewing machinist q.v. who makes up pieces of blue cotton material, known as "dungarees," which are used in required size and shape into overalls for engineers, plumbers, etc.

edger, see *bagger*.

elderdown maker; makes elderdown bed quilts of silk, satin, or cotton material; machines sides, leaving openings through which down or feathers may be inserted, and cuffs them with down or imitation feathers; sews them with quilt stitch to keep the down in place, see *quilter*, and inserts eyelet holes for ventilation.

envelope worker; a fabric hand q.v. who stitches sections of fabric for airship gasbag together on treadle sewing machine; its stitched sections on to sectional frame of airship and stitches by hand final joining of sections; may also apply dope with brush to fabric on completed section.

fabric hand, fabric worker; *wool coverer*; *bastier*, and sews fabric (linen) used in covering aeroplanes wings and in making airship gas envelopes; cf. *canvas stitcher*.

feller (hoesery, etc.); a chain stitcher q.v. who falls, i.e. sews down edges of woven flat to material, in a telling machine seams of knitted fabrics, which have been joined and seamed in overlocking machine, guides fabric under falling needle, which is driven by treadle or power.

feller (shirts); *seamer*, *side seamer*; sews down to body of shirts, edge of fabric after seaming, cf. *body maker* (shirts, etc.), by hand or, more usually, by power-driven single or twin needle sewing machine.

fine drawer (clothes repairing); sews, by hand, garments or parts of garments with invisible stitch, i.e. fine drawing, used for very fine materials; cf. *invisible mender*.

finisher (neckties), see *tie knuder*.

finisher (shirts); *needle hand*, *needlewoman*; finishes off shirts, overalls, etc., by sewing on collar bands, cuffs, buttons, etc., on power machine, and making button holes, by hand or machine; work done subdivided and operative specifically designated, e.g., collar finisher, cuff finisher.

friller; a machinist q.v. who makes frills for ornamenting or finishing articles of clothing by machining out lengths of material.

fringer; (1) operates power-driven fringing machine, which laces yarn

419. SEWERS, STITCHERS, SEWING MACHINISTS (not elsewhere enumerated).

babies' milliner; *infants' milliner*; makes and trims babies' hats and bonnets, usually of silk and wool fabrics, by hand or machine, in small sizes, also cuts out bonnet; cf. *milliner* (408).

bagger; *edger*, *edge stitcher*; sews, by machine, round edges of garment, thus enabling under-hanging stitches to be pulled out.

blinder, *blanker*; binds edges of blankets with coloured silk or ribbon by feeding edge against guide under needle of overlocking or blanket

through material, draws it out to fringe length, and finishes it off by cutting it; (ii) makes and knots fringe to material, by hand; (iii) ornaments articles by sewing on fringe, by hand or machine.

fringer (carpets, rugs, etc.), rug fringer; sews fringes to carpets and rugs, by hand or machine; cf. fringer, rug fringer.

fringer, shirt, attaches loose threads of cotton, silk or wool to end of scarf or shawl with a crochet hook; cf. fringer.

front maker, front machinist, see centre maker.

handkerchief maker; takes piece of linen or other material which has already been cut and (if necessary) thread-drawn, and stitches it (plain, hem, or spike stitch) on a power-driven machine.

hemmer; hems, or turns raw edge of material under and sews down edge of fold or hem, by hand or machine; sometimes specifically designated, e.g., carpet hemmer, hand hemmer, handkerchief hemmer, hemming machinist, machine hemmer, waistcoat hemmer, etc.

hemmer, shirt collar, shirt collar hemmer; in shirt making, also inserts gussets or rents.

hemstitcher, ornaments articles, by hemming them by hand or machine, with an open stitch called hem-stitch, i.e., pulls out several threads of fabric adjoining inner edge of hem and draws, tearing, the threads of the cross threads by successive stitches.

hosiery milliner, fancy hosiery milliner; knits, by hand or power-driven machine, woolen hats or trimmings for hats.

infants' milliner, see babies' milliner.

joiner (hosiery), a stitcher q.v. who joins one length of hosiery to another, either by hand or by machine.

kitter (machine), see tucker.

leatherer; sews leather inside caps with special machine.

liner, liner-liner (tailoring); stitches linings, by hand or machine, into garments.

lockmaker, see overlocker.

machine binder (cork hats); attaches binding round edges of cork helmets by sewing machine.

machinist, sewing machinist; sews seams, hems, etc., by hand, treadle, or power-worked machine, guiding material under needle along a line which is usually marked by tacking stitches; sometimes also attaches trimmings, tapes, braids, lace, etc., by machine sewing, by means of specialised machines or by special machine attachments on ordinary sewing machines may perform gathering, quilting, tucking and other operations; sometimes specifically designated according to kind of work, machine, etc., e.g., blouse machinist, carpet machinist, children's costume machinist, cloth machinist, cuff machinist, d'orsley machinist, duchesse coat machinist, flag machinist, foot machinist, hand machinist, horse clothing machinist, horse rag and basket machinist, machine machinist, millinery machinist, oilskin machinist, overlock machinist, power machinist, rubber or india rubber machinist (flexible boots, etc.), silk bag machinist, surgical hosiery machinist, the machinist, upholsterer's machinist.

machinist, button-hole; a button-maker q.v. who makes button-holes with a button-hole machine; may cut hole with scissors or with mallet and chisel, or cutting may be done by punch in the machine; manipulates edges of hole under needle of machine, in buttonholing thin or loose materials, hole may be cut by hand or machine after machine sewing.

machinist, press cloth, see mender, green cloth.

machinist, spoker, see stitcher, spoke.

machinist, tuck net; machine tucks in finished net, on power or treadle sewing machine, with a multiple-needle attachment.

maker, maker-up; a sewer or sewing machinist q.v. who makes, i.e., joins together, by hand and/or machine, component parts of articles of dress and other textile goods, already cut to shape by cutter (403); may also sew on trimmings, buttons, etc.; usually specifically designated, e.g., apron maker, baby linen maker, bag maker (not leather), belt maker, bib maker, body maker q.v., boy maker; cambric maker, calico maker, case maker q.v., centre maker q.v., cockade maker q.v., shirt collar maker q.v., colour maker q.v., crevasse maker q.v., cuff maker q.v., drawing green maker, dungaree maker q.v., sundown maker q.v., elastic brace maker, felt hat maker, flag maker, flounce maker, front maker q.v., gaiter maker (not leather), garter maker, handkerchief maker q.v., infants' robe maker, ironholder maker, lining maker, mattress case maker, necktie maker, overall maker, pad maker q.v., part maker q.v., pinstripe maker, piping maker q.v., pyjama maker, rainproof garment maker, scarf maker, servant's cap maker, shirt maker, shroud maker, sleep maker, stock maker, sundress maker, tick maker, underclothing maker, valance maker.

maker-up, hosiery maker-up, see seamer (hosiery).

mandar, invisible; *séguir*, *renfermer*, *stopper*; repairs tears, by hand, sewing, stitching, finger sewing, or tearing process, according to kind of tear and material.

mender, press cloth; wrapper mender; press cloth machinist, press cloth sewer; mends, by machine, press cloths or wrappers used in expression of oil from seed by hydraulic process or filtering of slip in pottery works.

mender, sheet (wood halo); repairs rips, sews on patches, cuts away ragged edges and roughly hems them, using sewing machine where practicable.

needle hand; (i) (tarpaulin, canvas, etc., work) see palm and needle hand, (ii) (shirts, etc.) see fulcher (shirts).

needle woman; (i) (baths) keeps towels and costumes in good repair, by hand sewing, darning, patching and use of sewing machines, (ii) (domestic) see sewing maid, (iii) (laundries) see remaker; (iv) (Post Office) a sewer q.v. who is engaged on sewing duties in Stores Department; (v) (shirts) see finisher.

needle worker; general term for any worker engaged in needle trades, e.g., finisher (shirts); sometimes refers more especially to hand sewers engaged in sewing fine needle-work; sometimes specifically designated, e.g., art needle worker (407) plain needle worker.

overlocker; lockmaker, overlock stitcher; guides cut edges and seams of knitted fabrics under needles of power-driven machine, thereby joining them together in neat fashion with an overlock stitch.

pad maker; (i) a machinist q.v. who stitches three sides of pads, which are then ready to be filled with down, etc.; usually done by mattress case maker; (ii) makes felt or jute pads to cover wire mattresses; sews finishing round edge and face brass cords, using hand or power-driven sewing machines; (iii) cuts out and attaches together pads of canvas, lining, wadding, etc., for padded parts of tailored garments.

palm and needle hand; palm stitcher; sews various coarse materials, using a thick thread with a stout needle, pushed through material by means of a metal disc attached to the palm of the hand by a leather strap.

part maker (ties, etc.); makes and lines small parts of made-up ties and bows, by hand or machine, mainly using slip-stitch.

picker-up (clothing); machines together linings, after they have been cut by lining cutter (403) q.v.

piping maker (trimming); fits up, by attaching materials required and regulating tensions, and tends a machine (like a braid plaiting machine), driven by steam or electricity, used in plaiting two or more folds of cloth, yarn or silk round a core of cord, to make "piping," for use in decorating furniture, or in dressmaking and drapery trades.

piqueur, see mender, invisible.

preparer of collars and wristbands; a machinist q.v. who performs first machine sewing operations on shirt collars and wristbands, ready for sewing on to shirt.

quilter, quilting machinist; sews, by means of a special attachment on a sewing machine, or by a three-needle machine, several layers of material or two layers enclosing wadding or other padding the whole being thus firmly quilted or stitched in lines or patterns; sometimes specifically designated, e.g., canvas quilter, sail-cloth quilter.

quilter (mattresses); mattress stitcher; stitches sides of mattresses by machine, in such a way as to give them a "gathered" appearance, and to strengthen them.

remaker (laundries, etc.); needlewoman; a sewer q.v. who restitches articles which have been unpicked for cleaning or dyeing.

renfermeur, see mender, invisible.

repairer (laundries); a sewer q.v. who repairs articles torn during process of cleaning.

runner-up; a machinist q.v. who hems the two raw edges of handkerchief material cut from the length or along two opposite sides of material for better class handkerchiefs, ready for crosser q.v.

scallopier, underclothing scallopier; stitches, by hand or machine, with buttonhole stitch, following the line of a scallop design which has been impressed on the edge of the fabric; cuts away, with scissors, superfluous material close up to stitch.

seamer, French; a machinist q.v. who sews a seam that is automatically folded in to hide stitches.

seamer (hosiery); (i) seamstress; sews pairs of knitted fabric together, by hand, with needle and thread; (ii) hosiery sewer-up, maker-up; guides knitted fabric under stitching needles of a power-driven sewing machine, to join them together; keeps needles supplied with thread from shuttles; sometimes specifically designated, e.g., German seamer.

seamer, point; point machinist; seam; point stitcher; a seamer (hosiery) q.v. engaged on a point sewing power machine, which joins two selvedge edges by sewing to gather welt loop to welt loop.

seamer (shirts), side seamer, see feller (shirts).

seamstress, sempstress; used generally to cover any sewing worker or machinist, more particularly one who does sewing work in connection with any institutions such as a charity institution or a railway department; cf. sewing maid.

seamstress, masonie; a seamstress q.v. engaged on stitching work connected with masonic aprons, collars, and cuffs, by hand or machine; cf. masonic embroiderer (407).

sewer; general term for any person joining or fastening together textile materials with needle and thread (making or repairing) by hand or by machine, in a factory, shop, laundry, an institution, private home, etc.; cf. machinist, and seamstress, sometimes specifically designated, e.g., felt sewer.

sewer, button; sews on to garments, e.g. coats, trousers, etc., buttons, by hand or machine, usually by "bagging" them on, i.e. sews them through forepart and sews without catching through facing; sometimes also makes buttonholes; cf. buttoner (429).

sewer (calendering and finishing); stitcher-on (calendering); stitches by hand, after it has passed through calendering machines, loose ends of cloth which have come undone in any other process.

sewer, cloth (textile mill); sewer-down (grey cloth); see stitcher (grey cloth).

sewer, fine; a machinist g.v. who works power sewing machine with two needles for double row of stitching on rubber shoes; cf. binder (rubber boots and shoes).

sewer, hand; general hand sewer; a sewer g.v. who chiefly sews by hand, but usually also uses hand or treadle sewing machine.

sewer, lining; sews up, or seams up, linings, and stitches them into garments, etc.; cf. machinist and closer (404).

sewer, mantle; g.v. mantle sewer, in-undressed mantle sewer; sews, usually by hand, asbestos loop on top of upright g.v. mantle; or ties asbestos round ring of inverted mantle, plants bottom of mantle, ties it in, and fastens it with needle and thread.

sewer, piece (textile dyeing, etc.); piece stitcher; joins, by hand or machine sewing, pieces of cloth, and to end, in preparation for dyeing in a beck, or rope form.

sewer (professio), see mender, press-cloth.

sewer, print (textile printing); print stitcher; sews together, by machine, different lengths of cloth which are to be printed as one piece.

sewer (rubber boots and shoes), see binder (rubber boots and shoes).

sewer-on, trimming; sews buttons, trimmings, etc., on shoes or slippers, by hand or by machine.

sewer-up; sews up, usually by hand, fourth side of down quilts and mattresses, after stuffing has been inserted.

sewing maid; needle woman, seamstress; diana, renova, and converts household linen in hotels, boarding houses, institutes, clubs, private houses, etc.; in some places, also makes dresses, etc.; may also mark articles of dress going to laundry.

shirt front band, shirt front maker; makes up, by hand and machine, from pieces of material cut by cutter, fronts for dress shirts, etc.; sews or machines shirt fronts into shirts.

sliker; (i) finishes cloth piece in folded form by stitching folds together, by hand, with a silk thread to hold them in position; (ii) sews selvages of cloth pieces with different coloured threads of silk or of mercerized cotton, cf. stitcher (grey cloth).

slower (not tailor); sews together, by machine, pieces of material already cut to shape for making sleeves.

smocker; trims smock frocks, overall, etc., giving effect known as smocking (a system of gathering), by sewing with honeycomb stitch, by hand or machine.

sou'wester maker; a waterproof garment maker g.v. specialized on waterproof hats, sou'westers, etc.

stayer (hoiery); stitches, by hand, along an open seam usually in button hole stitch for strengthening purposes; cf. closer (404).

stitcher; (i) general term mainly used to indicate a sewer g.v. when the threadwork is intended to be visible in the finished article; (ii) in some trades used in sense of sewing machinist g.v.

stitcher, bag; twiner; sews up ends of bales, mouths of bags, sacks, etc., by hand, in packing and export warehouses.

stitcher, canvas; sews, by hand, with strong thread, canvas screens in fuselage and outer covering of envelope of aeroplane.

stitcher, chain (hoiery); stitches bands and trimmings to shirts, drawers, vests, etc., by power sewing machine.

stitcher, edge, see bagger.

stitcher, floss; sews by hand, simple designs on hose with floss silk thread. stitcher (grey cloth); cloth secer, sewer-down (grey cloth), sewer, whipper, whipping girl; (i) stitches together, by hand or by machine, ends of those pieces of cloth which have to be passed through the one machine in bleaching process, thereby making possible one operation on one length of material; (ii) stitch marker; sometimes also stitches distinguishing marks upon various pieces; cf. marker (grey cloth) (369).

stitcher, hand (braes); stitches on leather tabs and elastic web to metal parts of braes, by hand.

stitcher (hoiery); a seamer (hoiery) g.v. who stitches together, by hand, edges of knitted fabric to form feet of seamed hose.

stitcher, mattress, see quilter (mattresses).

stitcher, overlock, see overlocker.

stitcher, palm, see palm and needle hand.

stitcher, piece, see sewer, piece.

stitcher, point, see seamer, point.

stitcher, print, see sewer, print.

stitcher, spoke; spoke machinist; a machinist g.v. who operates spoke stitching machine which makes a wide hemstitch, larger holes being produced than those made in ordinary hemstitch; threads may be drawn, prior to use of machine to increase effect.

stitcher, white room (textile finishing); whipper, whipping girl; as for stitcher (grey cloth), stitching together lengths of material for passage through staining machines.

stitcher and stringer; stringer; a fabric worker g.v. who secures canvas by sewing and lacing into position as required, on fuselage covering and partitions of aeroplane fuselage.

stitcher-on (calendering); see sewer (calendering).

stitch marker, see stitcher (grey cloth).

steppur, see mender, invisible.

stitcher, see stitcher and stringer.

stripping hand (hoiery machinery); a stripping g.v. who sews into position on men's pants, etc., raised banding, by means of rows of stitches, striping, or who does similar work upon other hosiery goods.

suspender band, suspender maker; assembles, and stitches, by hand or machine, various parts of ladies' suspenders; in small firms, cuts elastic bands; in large, sometimes, also sews suspenders on to women's dresses of corse, by hand or machine; also makes men's sock suspenders.

tacker, bar; basts or tacks round buttonholes of tailored garments, to keep parts together before holes are cut; usually done by hand, but in cheaper work may be done by machine.

tacker (hoiery); tacks labels on to folded and paired hosiery with needles and thread; joins hose into pairs, by tacking, tops with needle and thread.

tacker (tailoring); puts in tacks, i.e. numerous fine, permanent stitches, in pockets and other parts of a garment, to prevent tearing away; cf. balser (404).

tambourer (textile mill); marks or embroiders cloth, either in grey (unbleached) or in finished state, by stitching thereon (by hand or with tambouring machine) a design, trade mark, letters, figures, or other distinguishing marks; cf. tambour worker (407).

tambour worker (lace finishing); works a design on a plain net background, by hand, with a small hook, resembling a crochet hook; cf. tambour worker (407).

taper, tapping machinist; (i) machine stitches tape round scalloped edges of lace curtains; (ii) sews tapes over seams of unlined cloth cage, by power or treadle machine.

tassel band, tassel maker; covers a shaped mould of wood, cardboard or buckram with material and fringe or with a number of threads to form a tassel; inserts silk or other material for tassel through hole in centre of mould, and stitches to mould, by hand. the knocker, tie marker; knacker (seafishing); makes ties, bows, stocks, and cravats, by sewing together, by hand or machine, material and lining after they have been cut out; knots, and sews into position, bows and cravats; is sometimes a bono waker.

the slipper; slip-stitches together, by hand, edges of long ties, after they have been turned and basted.

top sewer; closer, usually by hand sewing, corners of handkerchiefs, tea cloths, tray cloths, etc., left open by soaking, e.g. dresses, blouses, underclothing, by hand or machine, braid, lace, embroidery or other decorative trimmings; (ii) inserts neckband on shirts, by hand or power machine, and adds cuffs or wristbands.

tucker, machine tucker; (i) makes folds or tucks in shirts, trousers, etc., by hand sewing or sewing machine. (ii) folder (machine); makes decorative tucks in blouses, dresses, etc., usually by means of gathering and tucking sewing machine.

twiller (blankets and cloth), see whipper.

twinner, see stitcher, bag.

waterproof garment maker; a machinist g.v. who sews together oiled, rubberized or weather-proofed material which has previously been cut out to shape of various garments; seams may or may not be also completed with rubber solution; cf. waterproof garment maker (408).

weather hat maker; waterproof garment maker g.v. who specializes on waterproof or all weather cloth hats.

weaving hand; mends second-hand clothing, bought by a wholesale dealer for re-sale; sews in and finishes off new hangings, sews on buttons, hooks, etc.; re-makes buttonholes; cf. closer (429).

welter, wetting machinist; wets hose or other limited garments by turning down a portion at edge of garment, by hand, over an attachment adjusted to size of turning required, and joining it to remainder by stitching it in a power-driven sewing machine.

whipper, whipping girl; (i) tweller; whips, or binds, selvages of cloth on a small machine, to prevent fraying; (ii) see stitcher (grey cloth); (iii) see stitcher, white room.

wing coverer, see fabric hand.

428.—OTHER SKILLED WORKERS.

seccordion plester; (i) adjusts machine to regulate size of pleats; feeds cloth, etc., into electrically-driven seccordion pleating machine, which pleats and then presses by taking material over heated rollers; (ii) places material between two pieces of paper, which have been folded in the required manner, and presses with a hot iron, by hand.

bleacher, hair; bleaches hair for wig making, by immersing in solution of hydrogen peroxide, etc., to produce artificial white hair, or to reduce intensity of existing colour.

bleacher (straw plait); mixes chemicals for bleaching straw plait; immerses material in the preparation, and withdraws it when process is complete.

board worker; *hair-dresser's model maker*, *perruquier*, *postiche worker*, *posticheur*, *wig-maker*; general terms for all workers engaged in processes used in connection with making wigs, false beards, moustaches, chignons, toupees, transformations, switches, partings, or other similar articles made of human hair, and including hair-net or lace making, knotting, parting making and insertion, etc., may be skilled in all operations or may specialize in one or two, includes chignon maker, hair-net, or lace maker, knoter, parting maker, transformation maker *q.v.*

body slitter (shirt, vest-hosiery); slits knitted fabric, made on a tubular knitting machine, with hand shears as preparation for cutting (*see* cutter (402), and (403)) and joining up of parts of garments.

braid creaser, *elastic*; applies small heated tool, by hand or machine, to footleth parts of braids, making ornamental lines across edge.

button covering; covers a mould or disk of buttons with linen, cloth, or other material, by hand or machine press; inserts parts of mould, i.e., dome and shank with cloth between. In press and operates press by foot lever or swinging arm.

button coverer, silk shank button maker, or for button coverer, cap peak maker; operates hand or power press which punches out cardboard shapes of peaks or which cuts cap peaks to shape by placing material under knife shape and bringing knife edge into contact with the material.

chalker; *clothing's planner*, *marker*, *marker-out*, *marker-up*, *penicill*, *planner*; arranges paper patterns on material so that cloth is cut economically, at the same time economizes carefully pattern and "way" of material, chalks round edge of pattern on material to define outline for cutting of garment; usually done by cutter (402) *q.v.*

chignon maker; a hair-dresser *q.v.* makes chignons, a kind of roll of hair, worn on the back of the head to supplement women's own hair.

cigarette tape maker; measures and cuts canvas into strips of exact size required for use as endleth bands supporting paper and tobacco in cigarette making machines; joins ends of strips and seams of strips in a hand-crowded machine.

clotheser; repairs, cleans up, and presses second hand clothing, ready for re-sale; cf. *welling hand* (410).

cloth man (tailoring); in tailoring establishment, examines cloth before it is cut, to detect flaws, e.g. uneven thickness, faulty dyeing; passes cloth over a revolving rod several feet from ground placed before window facing north, and looks through cloth against light.

cloth room man (hats, caps); *ex-saver*; examines materials supplied for use in cloth hat or cap making, to discover defects.

collar turner; (i) *see* hand turner; (ii) *see* pattern turner.

covered worker (millinery); covers shapes or wire frames with silk, velvet, ribbon, etc., by hand or machine.

cutter, *ate* folder.

designer; invents new styles and models for clothing, underclothing, hats, caps, corsets, etc., adapting old styles, and often working in conjunction with skilled workers, e.g., cutters, with a view to considering prevailing fashions, costs of production, etc.; sometimes cuts out cardboard models, and supervises making of sample products; sometimes specifically designated, e.g., art needlework designer, corset designer, dress designer, designer of costumes, tie designer.

device maker, *device worker* (hair); plait, knots, or twists locks of human hair into designs or devices, such as wigs in locks, or into cords, chains, or loops.

doll's dressmaker; designs, cuts out, and sews, by hand or machine, garments for dolls.

drawer, *thread drawer*; *weiner*; takes piece of material, as cut or torn to form a handkerchief, and draws, by hand, certain warp and weft threads, working to a gauge; prepares handkerchiefs in this way for spoke stitching, and/or forms designs in corners of handkerchiefs.

dyer; mixes dyes, and either himself dips strong plait, felt or cloth hats, or caps, in dyes, which are contained in revolving vats, or supervises dyer's laborers (429) *q.v.*

examiner, *see* cloth room man; cf. *examiner* (401).

feeder, *fur feeder*, *fur feeder-up* (hats); lays rabbit or hare skins on feed table and guides between rollers into fur-cutting machine.

finisher (cock hats); receives partly finished helmets from cork helmet maker *q.v.*, and trims edges smooth with sharp knife.

fitter-up (hairs), *see* tapper.

folder; (i) folds dress and blouse materials and gets them ready for machine cutting (393) *q.v.*; (ii) *cutter*; folds cloth for tailor's cutter, by hand or in a "cutting" or "rigging" machine.

folder, *box*, *see* folder, handkerchief.

folder, handkerchief; (i) folds finished handkerchiefs into squares; (ii) *box folder*; presses handkerchiefs and folds them to size, ready to be boxed in plain or fancy boxes; (iii) *use folder*; folds in hem, after thread-drawing process, on previously cut or torn piece of material to form box of handkerchief; cf. *boxer* (389), *marker-up* (390), *ornament* (393).

folder, *vise*, *see* folder, handkerchief.

freemason's apron maker; cuts by hand, with shears, oblong piece of white lambkin of prescribed size, and another triangular piece to form flap; tacks and stitches, on power machine, pieces together along two edged lines back with coloured silk; sews ribbons along front edges of apron and flap; stitches on silk rosettes, and fastens two pendants of gold or silver filigree work so as to hang from top of apron; stitches on two pieces of elastic silk fastener as belt, and adds buckle.

fringe-maker; hair pad maker; makes pads of human hair matted with silk, fluffs hair by back combing, mounts hair on a cord and makes into shape required; *obscure*.

fur blower (hats); *fur cleaner*, *fur mixer*, feeds, and operates by means of a lever, fur blowing hydraulic machine in which fur shaves off rabbit or other skins is broken up, mixed, and freed from dirt and curd, and hairs; looks over fur carefully as it passes through various chambers in machine, and removes impurities which are held by small rollers.

fur brusher, *fur cleaner* (hats); feeds fur skin between rollers of curding machine to clear it of dust, blood, matted knots, etc.

fur cleaner, *see* fur blower.

fur mixer (hats); (i) *see* fur blower; (ii) mixes or blends different qualities of fur.

furniture fitter (cock hats); *see* helmet furniture fitter.

goffer, *gofferer*; holds and manipulates flounces or ruffles of garments on table of a machine consisting of heated fluted rollers, which give them a pleated or fluted appearance.

hair frame coverer, *hair frame maker*; makes hair pads, by covering wire frames with human hair, by hand; places hair net over hair, and binds covered frame with tape by machine.

hair mender; cuts to shape, prepares, and fixes on block, the net foundations for wig-making.

hair net, or lace, maker; a hair-dresser *q.v.*, who weaves, by hand, net or lace for use as foundation of wigs, etc., or for use in protection of women's collars.

hair opener; opens and straightens hair comings by use of combs of various sizes; separates white or grey from coloured hairs, by hand.

hair pad maker, *see* fringe-maker.

hair plume maker; makes up plumes of horse hair, etc., used for head-dresses, military helmets, etc., by selecting hairs of appropriate lengths, tying, freely at base with thread, hems glue and dips base and of plume in hot glue, which, by solidifying, consolidates the hairs.

hair preparer, *human hair preparer*; sorts, washes, bakes, huckles, turns, dries, bleaches, and trims human hair prior to its sale as prepared hair, or prior to making up into wigs, transformations, etc.

hair weaver; weaves hair, by hand, on three threads stretched tightly between two upright stakes.

hand turner (collars); collar turner, *turner*; applies a metal plate pattern (template) to piece of cloth cut for collar shape and turns projecting edge of cloth over pattern, with a damp cloth and hot iron, to form turn-in for seam, thus giving correct size and shape.

helmet furniture fitter; *furniture fitter* (cock hats); *helmet fitter*; cuts or drills necessary openings and cuts ventilators, spikes, etc., on helmets, by hand with rivets and hammer or by holding in riveting machine.

helmet maker, *cock*; military helmet maker; tacks hat lining on wooden block and covers it with rubber solution; lets on thin strips of cork, hammers them flat, and files them smooth, then draws in over; repeats process until three layers of cork are attached, then takes cloth cover, stretches it in steam, and sticks it to helmet with rubber solution.

helmet trimmer, *see* helmet furniture fitter.

horse clothier, *horse clothing maker*, *horse rag and blanket maker*; cuts out, stitches together, and finishes horse clothing of woolen, linen, hemp, jute or cotton materials, the work is usually washed-dyed, men cutting and finishing, women stitching, by hand or machine, and ironing; in the case of jute horse clothing, the garment is sometimes made throughout by women.

horse milliner; makes by sewing, plaiting, etc., corsets, ear-nets, suspenders, etc., for horses.

ironer; finishes completed articles or parts of articles by pressing them with a hot iron; sometimes specifically designated according to work, e.g., hat leather ironer, cf. *presser and smoother*.

ironer (gloves); pulls glove on to a steam-heated hand-shaped brass instrument to shape it and smooth out creases; fingers seams with a small smoothing iron, often does work of *hyper-out* *q.v.*

knife shaver; pulls off long hairs from rabbit skin with special knife, pressed against the thumb, which is protected by an India-rubber shield.

knoter; a hair-dresser *q.v.* engaged on knotting hair, by hand, into net or silk foundation of wigs, etc.

lamp shade maker (silk); binds wire lamp shade frame with thread, or other material, cuts out covering material, and sews it, by hand or machine, on to frame; stitches on bead borders, rosettes, or other decorations; cf. *lamp shade maker* (398) and (399).

lanyard maker; cuts cords into lengths, and loops, knots, and splices them, by hand, into lanyards.

layer-out; lays gloves out flat after being pressed; usually done by ironer *q.v.*

layer-up; folds by hand, or in a laying-up or lapping machine, material for tailored garments, shirts, overalls, etc., into a number of layers, determined by quantity to be cut; arranges folds as accurately as possible so as to economize cloth and to obviate misalign of folds in cutting; makes out from template, on topmost fold or layer, lines for cutting; often also does work of chalk and cutter (403) *q.v.*, *cf.* **layer-up** (429).

liner, liner-in (hats); sews soft or paper linings, previously prepared, into hats by hand.

mangler, see presser.

marker, marker-out, marker-up, see chalk.

mask-maker (fabrics); cuts out by press with shaped knives, and binds silk covered canvas or buckram for ball masks or dominoes; sews on tape, elastic or silk fringes, if required; in the case of character masks, sews a mould and dye, and colours and attaches hair, by hand.

measurer; attends customers to take their measurements; may be a cutter (403), fitter (404), a cutter-and-fitter, or a shop assistant (775) *q.v.*, or a man employed in measuring only; sometimes travels from place to place taking customer's measurements.

model maker, hairdresser's, see board maker.

mould coverer, as for button coverer; sometimes specifically designated, e.g. tassel mould coverer.

clothes dresser; using brush or trowel, rubs oil into fabric, before or after making-up of garment, adding drying agent if necessary, and drying in open air or in stoves.

opera hat fitter; fits and sews cover on spring frame; usually also cuts out and sews together parts of merino cover; *cf.* opera hat maker (408).

opera hat spring fitter; fits, by hand-sewing, springs of opera hat on to crown and brim.

ornament maker, millinery; general term for persons engaged in fashioning millinery ornaments by sewing, embroidering or wiring fabric, stamplings, beads, artificial flowers, or other decorative material.

parting maker; a board worker *q.v.* engaged in making partings for wigs; draws single hairs through foundation of net, silk, or skin so as to be in proper direction; inserts parting, when made, in foundation of wig, by hand stitching.

patent turner, collar turner, turner (collars, etc.); inserts piece of material and template on gas-heated bed of patent collar and cuff turning machine, which may be either power driven or foot-driven; applies pressure by means of lever, so that edge of material projecting over template is turned upwards and inwards ready for seaming; work generally similar to that of hand turner *q.v.*, sometimes specifically designated, e.g. collar patent turner, cuff patent turner.

pattern man; cuts patterns, by shears or hand knife, and makes up into bundles; trims edges with a serrating machine.

penstitcher, see chalk.

permaquill, see board worker.

plucker; pierces cloth or other material to work a device in small holes by use of pushing tool or punch; cuts scallops on edge of cloth in some way; planner, clothier's planner, *see* chalk.

pleater; pleats or folds material in pleats, by hand or by pleating machine, presses with hot iron, and sews by hand or machine; *cf.* accordion pleater.

poetische worker, poetischeur, *see* board worker.

pousser, *see* printer, embroidery.

presser, mangle; presses finished articles with heavy irons, or in small cylindering machine, or in hydraulic press; sometimes further designated according to articles handled, e.g. apron presser, blouse presser; *cf.* ironer and smoother.

printer, embroidery; stencil (art stencil); (1) receives perforated pattern or stencil from tracer *q.v.* and, after placing it upon fabric, washes over pattern with a coloured solution, or paint, some of which passes through perforation holes and reproduces design on fabric beneath; (2) fixes print on fabric by drying; (3) pouncer; brushes fine powder (pounce) over stencil which is pressed with hot iron to reproduce and fix design; in Manchester district, printing is done by tracer *q.v.*

prize moulder; places pounce, i.e. straight piece of material, on a leghaped mould of perforated metal, regulates force of steam which is admitted and leaves pounce on shape to dry.

rib-cutting; cuts tubular knitted ribbing into lengths, with hand knife or shears, for subsequent attachment to top of socks, bottom of pants, etc. singer (hats); sings long hairs of fur of skin over fur skin.

riiser (hats); sorts cloth hats or caps into sizes, using brass gauge, and fixes tickets showing size.

skin grader (gloves); examines incoming skins for size, weight, most suitable use, flaws or defects.

skin measure (gloves); gives out leather to cutters (111) *q.v.* and fixes number of pairs that cutter may turn out from a given quantity of leather.

smoother; smooths finished garments with hot iron, by hand or ironing machine; may be either a dry smoother, who smooths and folds articles, e.g. handkerchiefs, shirts, after they have been starched or hemmed, or a wet smoother, who smooths finished articles after they have been laundered; after wet-smoothing shirts, adds body and pans skirt or body, sleeves, and cuffs, in proper manner for selling; *cf.* ironer and presser.

sorter, glove; examines each pair of finished gloves for defects.

sorter, trunk; inspects trunks (paling pieces) of leather from which gloves are cut) after they have been punched out; rejects faulty pieces.

splice (ride pull-through); splice loop on end of cord-ride pull-through, which holds oily waste or other material used.

stenciller (art needlework), *see* printer, embroidery.

stover (hats); dries hats in stove after planking, proofing, and blocking.

topper, shirt topper; fitter-up; slopes shirt, i.e. shapes neck, and sews in front, yoke, collar, and sometimes pocket, by hand or by machine.

tracer; (1) makes perforated pattern or stencil by tracing along outline of design with needle of perforating machine, as in Manchester district, also does work of embroidery printer *q.v.*; (2) copies designs by tracing them on cloth, from original, by means of carbon paper.

transformation maker; a board worker *q.v.* engaged on making "transformations," a kind of wig worn by women to supplement their own hair.

trimming maker (slippers); makes tassels, by hand, forms braid into designs of knots, etc., and sews to pyjamas, by hand or by braid attaching machine.

trimming maker (slippers); sets out from spare pieces of leather, silk, etc., and makes bows, covers buckles, etc. for shoes or slippers, usually on a foundation of buckram or cardboard.

turner; turns tile right side out after sewing it by putting over it a thin length of wood, and at same time inserts lining (if any).

turner (collars, etc.); *see* hand turner, and patent turner, *cf.* turner-out (429).

underser (cork hats); attaches green fabric lining to under part of peak of cork helmet with rubber solution.

veiner (handkerchiefs), *see* drawer.

weigher (felt hats); (1) weighs quantity of fur needed for a single hat, and places it in forming machine; (2) weighs wool "forms" and trims them, if necessary, with shears to adjust weight.

wig maker, *see* board worker.

wig mount maker; cuts out pieces of set or gauze and tacks them together on wooden block to shape of head; sews tapes in certain places to keep foundation in shape; bands edges; passes mount to knoter *q.v.*

wire blocker, hat; millinery wire blocker; forms, in millinery wire, outline of shape of hat on a shaped wooden block.

wirer (hats); sews wire, by hand or by machine, in finished hats to strengthen parts which bear strain, e.g., brim.

429.—OTHER WORKERS.

backgirl (Swiss embroidery), *see* shuttle girl.

bag bundler, *see* for folder.

basket puller; pulls or takes out tacking stitches, after garment or part of garment has been finished.

bander (gloves); pins paper bands round each half-dozen pairs of gloves when completed.

barrier, hairing band; sews, by hand or machine, a strong seam of locked thread where rumps of boot or shoe uppers join, thereby strengthening part which bears greatest strain when uppers are pulled on to last.

batter-off (clothing); makes, by sewing, a bar, a strong seam of locked thread at one end of buttonhole to fasten off machine button holes; also stitches bars at each end of pocket slit, etc. for strengthening purposes.

baster-out (boots), *see* hammer-off.

benchman, bench-hand; (1) *see* getter-off, (2) putterer-up; prepares boot repairing outfit, for sewing machine, by disamping it, cutting to shape, skiving edges, etc., takes off worn parts of old boot and shoe leather, i.e. part of old sole and top piece of heel channels new soles ready for fitting on to machine. rivets if article is not to be stitched.

better (boots); plougher-out; levels welt of boot or shoe by hand with a welt plough, i.e. a specially shaped knife, or by machine, in preparation for edge trimming.

bitter, forepart; a bitter *q.v.* who specializes in leveling welts of foreparts of boots and shoes.

black edger (gloves); edge blocker; stains, with a blackened pad, as recovered from machine, the white edge left on black kid gloves.

blocker; blocks edges and insides of clog-soles, by hand, with a brush.

bobber, needle bobber; takes needles out of Swiss embroidery machine and hand patchwork machine, after use for a particular pattern, in readiness for re-setting.

bobber; touches up inside of hard toe hat, by painting it with dope, where proofing has not been properly done.

brander; infilder, worker (tents, tarpaulins, etc.), stamper, stenciller; (1) one of two workers who together stencil names, trade marks, etc., on sacks and bags, by hand; stretches sack etc. holds stencil in place, and paints over it with stenciled brand; (2) *see* printer.

brander, sole, *see* stamper, sole.

**brush machine operator, brusher-
(boots), *see* polisher, bottom.**

brusher, straw plait brusher (straw hats); brushes straw plait by hand after it has been bleached and dyed.

brusher, brusher-off (tailoring); **cleanser** (tailoring); brusher (tailored garments before they are packed); **brusher-up**; **cleanser**; **boot cleaner**; removes stains or marks, produced on boots during manufacture, and puts final polish thereon, either by hand, or with a machine consisting of a revolving shaft, bearing cloth pads and soft brushes.

buffer, bottom buffer (boot, shoe); **fur scourer**; holds boot or shoe against revolving drum of a buffing machine, which gives an extra smooth scouring to sole bottoms by rubbing grain of leather; may scour boots by hand with sand paper and emery cloth.

buncher, straw plait buncher; ties, by hand, with string, straw plait into bundles of certain numbers of lengths ready for despatch.

bummer (boots); **rub boots**; or **bummer**, e.g. back piece of boots and shoes with wax ball and hot iron, to give a smooth bright (or burnished) appearance; sometimes specifically designated, e.g., heel bummer, strip bummer.

buttoner; **sew buttons** by hand, or **sews or rivets them** by machine, on boots, shoes, shirts, gloves, knitted underwear, etc.; usually specifically named according to article, e.g., collar buttoner, cuff buttoner, glove buttoner, shirt buttoner, etc.; **button hole cutter**; cuts button holes in uppers of boots by hand with chisel and mallet on a block; or holds front of upper under punch of button-hole cutting machine; **calendar girl**; a presser (428) who smooths finished embroidered articles with small calendaring machine.

canvasser; prepares canvas for use in coat making, by dampening and drying, to ensure complete shrinkage before use.

copper (felt hats); places paper caps over crowns of felt hats to protect after finishing process; **cover** (velvet hats); makes nap of velvet hats with a card (a brass like holder set with teeth of steel wire) by hand, after brushing.

crammer (boots); **see scotchman**.

channel closer; relays lip of channel (see channel opener); runs it down and then hammers it flat, after stitches have been made in it, which bind sole to welt; works either by hand, with a file, or by machine; often done by lever, e.g.,

channeler, **sole channeler**; operates channeling machine which cuts a slit (or "channel") round edge of inner or outer sole of boot or shoe, in which the stitches are run, the "channel" then being closed up round the stitches to protect them from wear; sometimes specifically designated, e.g., **isole channeler**, **outside channeler**.

channel opener, **sole channel opener**, **rubber-up**; takes channelled sole and applies lip of channel to whirl attachment of machine, which opens channel and causes lip to stand almost at right angles to sole; sometimes also cuts channel; e.g., **channeler**; often further designated according to part of boot worked on, e.g., **isole channel opener**, **outside channel opener**.

chopper (boots); pieces rough or scrap leather on upper part of shape-last, (shoes) on last, and strikes leather with mallet and so cuts out a small section of leather which is used for building up chopper heels.

closer, clog; affixes clops to clogs by means of machine; sometimes done by clog settaman (415) q.v. or by parker and stocker (449) q.v.

clopper (gloves); **see domer**.

cleanser, **bag**; **duster**, **duster girl**, **whiter girl**; feeds second-hand socks (inside out) into power-driven duster machine, which (1) takes them over a roller between brushes, removes dust by suction, and returns to front of machine, or (2) revolves them in polygonal cage; stacks bags after cleaning.

cleanser, boot cleaner; **see brusher-up**, **cleanser**, **copper**; **sew**, with sand, brusher, etc.; **copper boilers** used in straw hat making processes; **cleanser, dye vat** (straw plait dyeing), as for **cleanser**, **copper**.

cleanser, hat; **see scourer** (hats). **cleanser, sprig**; **avine polisher**; removes paint (or ink) from heads of sprigs (rivets), with a blunt knife, after boot and shoe soles have been painted or inked and rule smoothed with polishing rag.

cleanser, stitch (boots); cleans stitches of welted or stitched boots and shoes with a bone tool which has a partly corrugated surface and a solution of gum-arabic and oxalic acid (for black coloured welts) or of gum only (for black welts).

cleanser, straw plait; cleans straw plait which has been soiled in transit or storehouse, by washing in tanks of water and drying in hot air chambers; **cleanser** (tailoring); **see brusher** (tailoring).

clipper; clips, with scissors, loose threads from embroidery.

clip puncher and **fastener**; **see fastener**.

collar stamper; stamps size, initials or devices, on inside of collar, by hand or machine, using indelible ink.

copper minder (straw plait); **dye vat watcher**; attends to copper boilers, or vat in which straw plait is dyed.

copier (cloths); **see tacker**. **crosser**; assists planer (408) q.v. by opening and refolding "form" of felt hat each time it passes through multiple planing machine, or which it is being planed by hand, to prevent felting of seams and to ensure uniform shape.

cutter, appliqué (embroidery); cuts away surplus material, with scissors or power-cutting machine, after preliminary work has been embroidered.

cutter, fourchaita; forget cutter; cuts side pieces for fingers of glove (called fourchaites or forgets) from odd pieces of leather, by hand with scissors and pattern; **cf. glove cutter** (414).

cutter, linen; cuts linen lengths into small round pieces for linen buttons, using hand or machine press.

cutter, lining; **puncher** (glove lining); a puncher q.v. who places punch on fabric and releases press which punches out several layers of glove lining fabric at one operation; **cf. press cutter** (408).

cutter, thumb; cuts glove thumb (fabric gloves) by hand or power press, or (leather gloves) by means of shears.

cutter-out; **see parer** (embroidery).

dampener (boots); **setter**; soaks leather heels in clean soft water; drains them, on saddles, and places them in dark, or soaked light, and mellow and ready for making into boots, etc. **dampener-down** (boots); smooths bottom of sole of boot or shoe with a pad of clean, white flannel, dampened with special solution, as a finishing touch, to bring out grain.

domer, glove domer; **clapper**, **fastener riveter**; attaches, by machine riveting, domes (clip fasteners) to gloves; places fastener on glove in position in machine, and pulls lever.

duster, duster girl; **see cleanser**, **bag**.

dyeer's labourer; stirs hats in dyeing vats with a pole, and assists dye (416) q.v. generally.

dye vat watcher; **see copper minder**.

black blacker; **see black edger**.

errand girl; **see matcher**; **cf. errand girl** (758).

eyelot hole maker; **see eyeletter** (corsets).

eyeletter; pierces, by hand with stileto, or by hand machine, small holes or eyelets in tailor's cloth, or other textile material, to be worked round with strengthening stitches by button hole (419) q.v.

eyeletter (boots); **hooker, puncher**; (1) puts eyelets, studs of hooks in boot uppers, by hand, with punch and hammer; (2) feeds top and bottom

parts of eyelet to hoppers of automatic machine; places boot or shoe upper in position in machine and releases lever.

eyeletter (braces); operates press which fastens leather tabs to metal parts of braces by means of eyelets.

eyeletter (corsets); **eyelot hole maker**; operates a hand or power-driven press, which carries corset automatically under two punches, these cut circular holes in cloth, insert metal eyelets therein, fold eyelets over, and press them down tightly.

eyeletter (feels); **see clip fastener**, **stamps**, by hand machine, vents and perforations in crown after hat is made.

eyeletter (tents, tarpaulins, etc.); **grammetter**; (1) cuts holes in canvas and sews with thread round edges by hand; (2) sews round eyelets with special machine; (3) inserts brass eyelets with a hand press machine.

fastener, fastener flaxer, **clip fastener**; **clip puncher** and **fastener**, attaches, by machine, clip fasteners to peaks and fronts of caps, using a hand punching machine.

filler, bottom (boots); fills in cavity that would otherwise be formed between sole and inside, before it is attached, with some kind of filling such as leather, leather scrap, tanned felt, sheet cork, ground cork and cement, ground leather waste or canvas; (2) sews round eyelets, may fill with cardstock.

filler (down); (1) (hand) stuffs down, feathers, or kapok into made-up pillow or quilt covers, and packs it into place with filler-pipe or stick; (2) (machine) guides funnel or filling machine and regulates amount of down or kapok put into made-up quilt covers.

fingerer (gloves); closes, i.e., sews up, finger pieces by hand or, more usually, by treadle machine.

finisher; general term for any worker engaged in any final process of making up textile goods, e.g., sewing on of buttons, eyeletting, felt finishing.

folder; folds finished articles in preparation for packing; sometimes specifically designated according to work handled, e.g., **bag folder**, **belt folder**, **scarf folder**.

folder (gloves); folds trunks, fourchettes, and thumbs in half-dozen folds, by treadle machine, and hands them ready for sewing.

front girl (Swiss embroidery); threads needles at front of Swiss embroidering machine while it is working, using a small book.

fudger, **stitch fudger**; a wheeler (boots) q.v. who works round edge of sole.

getter-out; bench hand, benchman; examines boots when completed and performs final finishing operations, e.g., fills defective channels, polishes off and pairs up finished articles, ready for stock room; also does diggering and setting; e.g., **marker** and **digger** (414).

glosser, boot; **boot polisher**, **boot shiner**; applies polishing wax, paint, or stain to a boot with a brush, rubs it over with a sponge dipped in gum-solution, and polishes it up with a revolving power brush.

grammetter, **see eyeletter** (tents, etc.).

hammerer-out (boots); **beater-out**; hammers upper of a boot all round, after it has been stitched together, to improve its appearance.

hammerer-out (boots); hammers leather, which is to be used for soles of boots and shoes, to condense fibres, make leather firm, and reduce liability to stretch.

hat leather flanger; places hat leather in position in blocking press and pulls lever so that edge of hat leather is pressed into shape, a fringe being formed for use in attaching to hat.

hat leather gas liner, **hat leather liner**; passes hat leather through gas-heated machine, which impresses a mark on edge of leather.

bat leather turner; turns up edge of leather or imitation leather bands for men's felt hats, in readiness for stitching or cementing down.

heel roll machine man; feeds and operates a machine which covers edges ("rolls") of boots with heated wax or color. Used link after they have been built up, and gives final polish by means of a brush.

bobber (boots); drives in hobnails round rims of soles of heavy boots, by hand with a hammer.

hooker, booter-up; layer-up, *pudder-up* (shirts); folds cloth to required size for multiple cutters by hooking cloth first one side then the other of a frame; cloth is then creased at folds and out; cf. layer-up (428), hooker (443).

hooker (boots), see eye-let (boots).

inflator, glove; removes creases from fingers and thumb of gloves by fitting glove on to an iron band, heated by steam or electricity.

initialiser, see brander.

inker (boots); bottom pointer, painter, stoker (cloths); applies black ink or paint, with brush, to soles, edges, or heels of boots, by hand; sometimes specifically designated, e.g., edge inker, heel inker, strip inker, waist inker.

tipper (cloths); tips; beats iron on to sole of cloth, by hand with hammer or by holding cloth side in place on nailing machine.

japaner; an inker q.v. who specialises in coating bottoms of boots and shoes with japan.

knocker-up (boots); powder; cuts or grinds down flat, by machine, edges of uppers of boots and shoes, after they have been attached to insoles by laster (414) q.v.

knottier (marks, bags); ties or knots ends of threads, after bags and sacks have been sewn by machinist or over-bed machinist (419) q.v.

knott-tie (boots), see lacer.

labeller; sees padded labels on centre of inside of unlaced bags, by hand.

ladder (boots), *knott-tie*, *tier-over*, *tier-up*; laces up boots or shoes with a lacing instrument, and ties a knot, to prevent foot gaping open while it is being laced and sewn.

laser, corset; threader; (i) threads corset lace or cord through eyeleted holes in corsets and stays in readiness for boxing and packing; (ii) is Lac-cushie, threads lace with ribbon, by hand or by machine, before it is put on corset for trimming; cf. laser (Portsmouth) (409).

leather lasses, i.e., overseers, by hand, leather lasses into felt hats; obsolete.

layer-up, see hooker.

leveler, bottom leveler, levelling machine operator; (a) levelling levels, or flattens, bottoms or well leathers, of boots or shoes; places bottoms on iron foot and releases lever causing another foot to come up with great pressure upon the first; (ii) clamps shoe or boot in machine and starts-up eccentric rollers which exert pressure on boot and so rub it smooth; in both cases above, often also does work of *knott-tie* laser q.v.

maker-up (cloths), see knitter-on.

marker (boots); (i) strip marker, tracer; marks, by hand or machine, facing of upper where a row of stitching is required to be made by sewing machinist (414) q.v.; (ii) marks a plain line round bottom of a boot or shoe, between sole and heel, part to be polished by fiddle polisher q.v.; obsolete.

marker, lining, see marker, size.

marker, size; size stamper; (i) lining marker, lining stamper; marks size, with hand stamp, on pieces of leather, linings, etc., or on finished boots and shoes; (ii) measures and stamps corsets with size and style

number; (iii) marks sizes of hats on inside, prior to insertion of special labels, etc.

marker, strip, see marker (boots).

marker (leats, tarpaulins, etc.), see brander.

matcher, matcher-up; errand girl, messenger, room girl, trotter; finds colours, linings, thread, buttons, etc., to agree with colours of garment, and runs errands generally.

matcher, colour (straw plait); a dyer's assistant, who, during dyeing process, lifts, by means of loops of string in ends of plait, small pieces of straw plait from vat, dries ends and takes plait to dyer (429) q.v. to see if dye dries correct colour.

messenger, see matcher.

mindar (embroidery); threads needles and fills chutes on power pantograph machine; puts needles in hand pantograph machine, etc.

nailer (boots), see rivater.

nailer, loose (boots); a riveter q.v. who operates an automatic "loose-nailer" riveting machine, which loosely attaches middle sole, or sometimes whole sole, to heels, with brass or iron rivets to keep heat work in place pending permanent attachment by nailing or sewing.

nail-on (cloths); maker-up, *pudder-up*; nails upper on to clog sole, either by machine or by hand; usually done by scotman (415) q.v.

maximkaiser, see accuser (boots).

nickelizer; overlocker; cuts away, by hand or machine, surplus fabric from edge of maligned design, embroidered or fabric or garment.

oak liner, oak-aligner (boots), see painter.

overlocker, see nickeler.

padder, bottom padder, heel padder, see polisher, bottom.

painter, bottom painter; stainer, bottom stainer, oxidizer, oak liner; applies paint or stain to bottom of a boot or shoe with a brush, by hand; cf. inker.

parer, edge, see trimmer, edge.

parer (embroidery); cutter-out, trimmer (embroidery); finishes off article by hand; trims edges and cuts away surplus material; removes loose threads, etc.; usually done by apprentices.

parer, fore part (boots); an edge trimmer q.v. who specialises in trimming fore-parts of boots and shoes.

parer, heel (boots); heel trimmer; shapes heels of boots and shoes by removing superfluous leather from edge, usually by holding heel against revolving cutters of paring machine; sometimes by hand with knife.

parer, piece sole; pares pieces of leather called piece-soles, or sole pieces, which are added to soles of new boots to extend their length, the heel, when affixed, hiding joint; holds sole piece in paring machine against revolving cutters.

parer, seam (boots); boot upper trimmer, edge trimmer; pares away, by hand or machine, surplus material behind line of stitching when lining is attached to upper of boot; operation usually done automatically by knife set in sewing machine and watched by machinist.

paste fitter (boots); pastes parts of uppers together to keep them in position while they are being sewn into pastar (boots); (i) joins together by applying paste with a brush, two thin pieces of leather together to form material from which insoles and stiffenings are; (ii) general term for anyone who pastes any part of boot or shoe, e.g., socks, stiffenings, half-lifts, sometimes specifically designated, e.g., heel pastar, sole pastar; may paste toes of uppers, before they are heated, to harden them, or linings to vamps, or fancy to caps on vamps, ready for machinist; or may do other pasting work.

pastar, heel; joins together with paste pieces of leather (called "heel-lifts") from which a boot or shoe heel is built up by beeler (414) q.v.; obsolescent operation, now usually done by beeler q.v.

pragger (boots); attaches soles to heavy boots intended for use under wet conditions, by driving in wooden pegs with mallet and cutting off level on both sides with knife or by holding boot in pegging machine.

pragger-up (shirts), see hooker; obsolescent.

perforator (boots); puncher; operates a machine which stamps out ornamental holes in upper edges of toe-caps, edges of vamps, or other parts of boots or shoes.

perforator (embroidery); prickier; perforates designs, in preparation for tracing, by working special perforating machine, hand or power-driven, in which needle either pricks along outline of design automatically or is made to do so by operator; or by running. Commonly machine over design, with no cotton in needle.

perforator (felt hats), see eye-let (felt hats).

perforator (gloves), see preener.

picker (wool felt hats); (i) extracts carefully, with tweezers, pieces of proof or bits of fur which have missed dressing operation; (ii) picks seeds out of bodies of wool right before they have a fine break; (iii) picks tar or paint spots from wool "form" with tweezers.

picker-up, see rodder-off.

plaiter, plaiting straw cutler; weaves or plaits by hand and machine, using a splitter fitted with radially-cut cutters, single strands of straw into various widths, if necessary splitting straws and cutting them into lengths.

plaiting straw drawer; arranges straws of similar length from straw trusses as received in factory in bundles all tapering in same direction.

plough-out (boots), see Miter.

polisher, boot, see glosser, boot.

polisher, bottom (boots); padder, bottom padder, brusher, brush machine operator. heel padder; polishes bottom of boots and shoes after they have been soaked or painted, by holding them in a machine having a revolving shaft carrying pads (cloth or leather) and brushes.

polisher (cloths); sizer; finishes leather surfaces of clog uppers with size by hand with a sponge; usually done by packer and stalker (410) q.v.

polisher, fiddle; a bottom polisher q.v. who polishes "fiddle" or "waist" of boot or shoe (middle part of bottom, between sole and heel) by smoothing it with sandpaper, rubbing it over with paste or gum, and when dry, rubbing it with a bone tool.

polisher, spring, see cleaner, spring.

pounder; (a) see knocker-up; (ii) see leveler.

preener (gloves); perforator; punctures holes in backs of gloves, by means of a preener, or stamp, and wooden mallet, ready for hand embroidering of points by tambourer (411) q.v.; obsolescent.

preparer (boots); prepares material for skilled workers in any department, but most commonly for laster (414) q.v., for whom he may perform any or all of the following operations: tacking on insoles and inserting stiffenings; skiving (trimming), by hand, uppers and bottoms to remove roughnesses or irregularities; assembling bottoms and uppers; opening shoe last, etc.

preparer (cloths); powderer and eye-letter; prepares uppers for machinist by punching holes, fixing eyelets, and skiving (trimming).

preparer (hats); sorts, and puts together, ready-cut, linings, canvases, peaks, etc., ready for machinist (419) q.v.

pricker, see perforator (embroidery)

printer, bag printer, sack printer; brander; marks bags or sacks with owner's name or other distinguishing marks, by laying them on bed of a sack printing machine; sometimes also does work of block cutter (308) *q.v.*

projector (gloves); sews small pieces of leather at tops of slits, by hand, to prevent tearing.

puffer (boots); prepares puff, i.e. a stiffening, and inserts in toe of boot under toecap, to give solidity and to ensure that toecap retains its shape. (swansdown puff) prepares by mangleing rubber solution on glove, (leather puff) first smears with gum or glue; (felt puff) beats on hot plate to soften tar or pitch filling and quickly inserts under toecap.

puffer, glove; sews a gather into gullet of glove at wrist; may also insert a piece of elastic to tighten glove round wrist.

puncher (boots); (i) see perforator. (ii) see creolator; sometimes specifically designated, e.g., fancy puncher, toecap puncher, vamp puncher.

puncher, puncher of trunks (gloves); shaper, washer; lays track (oblong strip of leather) on sole in machine, and operates press which punches out parts of gloves; variously named according to work done, e.g., fourchette puncher, thumb puncher; cf. tranker (411).

puncher and sylet (dogs), see preparer.

puncher (glove lining); see outter, lining.

putter-on (clogs), see nailer-on.

putter-up (boot repairs), see benchman.

receiving-room assistant (tailor's); removes to warehouse, finished garments which have been pressed, and generally needs power (404) *q.v.*

reeler (straw plait); winds straw plait into bunks of specified sizes, places metal spool on a spindle and winds plait thereon by turning a handle.

river, shoe riveter; heel sprigger, outter, sprigger; (i) attaches bottom to boots and shoes with rivets or screws, either by hand with hammer on last or by hand with hammer in riveting machine, which is controlled by hand and foot levers. (ii) executes repairs by riveting process, by hand or machine.

river, fastening (gloves), see detector.

rodder-off (straw plait); picker-up; by means of binding thread, ties straw plait on rods after it has been bleached or dyed; places rods in open air to dry or in drying room.

roller; passes leather intended for use in rough stuff room or press room (i.e., to be cut up for soles, insoles, stiffeners, etc.) through a rolling machine, to flatten and condense it, often does other labouring work in rough stuff room.

room girl, see machiner.

rosetter; makes rosettes or bows as trimming for ornaments.

rough rounder (boots), see runner-rounder.

rubber, seam; rubber-down (boots); rubs down seams on two pieces of "upper" material, after stitching, with blunt tool and opens out pieces.

rubber-up (boots), see channel opener.

runner, ribbon; threads, or runs, ribbons through articles of clothing, with a bekin.

runner, tip and lining (hats); gathers top of hat lining by running a thread through it, by machine, preparatory to fixing in hat.

runner-round (boots); rough rounder; shapes sole and welt ready for stitching, either by hand or machine; *cf.* for rounder (414).

sander, heel (boots); a scourer (boots) *q.v.* who specializes in scouring heels. **scourer (boots);** sawmaker; rubs surface of soles or heels of boots or shoes, by hand with sandpaper, or on emery-wheel machine, to remove "grain," and leave surface

smooth for finishing processes; sometimes specifically designated according to parts upon which he works, e.g., bottom or sawmaker scourer, heel scourer, heel-brand scourer, shank scourer, tip scourer, waist scourer.

scourer, fine, see buffer; sometimes specifically designated, e.g., bottom fine scourer.

scourer (hats); hat cleaner; dips hats, after pressing, in a solution of soda, and scrapes surface clean with a piece of wood.

scourer, welt; schoen; a scourer (boots) *q.v.* who smooths a type of welt used chiefly for children's shoes and formed by stitching together, from outside of shoe, the insole, upper and sole.

seal, a piece (boots); presses seat-pipe, a piece of leather which forms base for attachment of heels into heel part of a boot or shoe, by hand with clamp and tacks, or, by sewing machine, in preparation for attaching heel.

seal tapper (boots); mends "seal-piece" (piece of leather which forms foundation of heel) to last, by hammering it by hand and fastening with tacks.

setter, edge (boots); closes up cracks between sole, middle-sole, and welt (if any) after sewing or nailing, by hammering and burnishing edges, usually by holding in place in ironing and burnishing machine.

shaker, bag shaker, sack shaker; shakes used sacks, by hand, or in a "dusting machine" (see cleaner, bag), to remove dust and dirt.

shaker girl, see cleaner, bag.

shaper (gloves), see puncher of trunks.

shoe examiner; examines finished boots and shoes and certifies superficial damage done during handling between different processes; work sometimes done by trimmer *q.v.*

shuttle boy, shuttle girl (Swiss embroidery); back girl; fills shuttles at back of power-driven Swiss embroidery machines.

silk tie knitter; knits pieces of silk to shape for neckwear; finishes off with needle and thread; makes fringes and tassels on the ends of scarves, mufflers, and ladies' neckwear.

sluer; (i) (clogs), see polisher; (ii) (leather hats) sorts hats into sizes; (iii) see tier-up; (iv) see marker, shoe.

slitter (gloves); machines welt-binding on slit of glove.

slosher (slang), see inkler.

soaper (clothing factory); rubs, by hand, piece of soap lightly on seams and other parts of garments, to facilitate pressing; usually done by presser (404).

solutioner (boots); cementer; (i) uses a rubber solution or cement, on lining of upper, in preparation for passing it to machinist (414) *q.v.* to be "dagged over"; or applies a rubber solution to uppers, to prepare them for edge-folding machine.

(ii) fixes patches to boot uppers with solution, by hand; (iii) attaches soles or heels with solution.

sorter; general term, particularly in boot trade, for anyone who works in stock room or factory sorting out articles, materials, or tools, according to size, shape, quality, etc., often using measuring instruments in finer work; generally further designated according to kind of goods handled, e.g., plating straw sorter, insole sorter, last sorter, lift sorter, middle sole sorter, palm sorter, sole sorter (who also stamps gauge, or thickness, on sole), stiffening sorter.

spiker (clothing factory); places cloth over spikes to keep in position during cutting, absolutely.

splitter, palm leaf (straw plait); cuts palm leaf into pieces for use in straw plait making, using hand knife; usually done abroad.

sprayer (gloves); works, by hand stitching, apoor point at top of glove pointing, absolutely.

sprigger, heel sprigger (boots), see riveter.

stainer, boot, see glosser, boot.

stainer, bottom (boots), see painter.

stamper; in hat trade, may be hat stamper or label stamper, see embosser (337); in boot trade, in which he is variously known, as insole stamper, size stamper, sock stamper, size stamper, see size marker, and sorter in *ferm* and *terpina* trade, see brander.

stamper, size; lining stamper (boots, gloves, etc.); size marker, size.

stamper, sole; sole brander; a size marker *q.v.* engaged in marking boot and shoe soles with die and stamp machine.

stamper (textiles); prints patterns for embroidery upon cloth, by selecting through perforated paper with point, stenciller, see brander; cf. embroidery printer (428).

stringer, plait dyer's stringer; by means of a needle, puts thread or string through straw plait previous to dyeing or bleaching.

studder (boots); hammers nails or studs into soles and heels of boots by hand.

tailer; sews labels, indicating size, style, etc., on to corsets, by hand.

tacker (boots); (i) old-fashioned name for lester (414) *q.v.*; (ii) tacks, with small nails, various parts of boots or shoes together, e.g., tacks up last or "rands" on heel by hand-tacking machine; tacks insoles on last; tacks soles, by hand or machine, after boot is lasted, tacks piece-soles on to last by hand or machine, etc.

tacker (clogs); coupler; fastens a pair of clogs together by a strip of leather nailed to each; often done by seamstress (415), or by packer and stacker (340) *q.v.*

tacker (cloth hats); stitches peak to body of cap by hand, in caps where patent fasteners are not used.

tacker (gloves); finishes, by tacking with thread, finished gloves together in pairs ready for market.

tack puller (boots); removes tacks from boots, by hand or machine, after vamp has been pounded and shoe set on last.

tagger (leather laces); (i) pierces end of lace; threads wire through holes; lays lace ends with wire in slot of twisting machine and turns hand wheel causing wire to twist round lace ends into points; (ii) *see* for tagger (mohair, silk, etc.).

tagger, lace tagger, boot lace tagger, stay lace tagger (mohair, silk, etc.); operates, by foot lever, a machine which attaches metal tags to ends of laces; places lace end on opening and lays both end on bed of machine.

taker-off; removes tags from printing machine after they have been marked by printer *q.v.*

thread drawer; draws threads, by hand, in preparation for hem-stitching by hemstitcher (410) *q.v.*

threader; (i) threads needles for Swiss embroidery machine, using hand threading machine; (ii) *see* laster, corset.

thumber (gloves); sews thumb pieces into gloves, by hand or machine.

tier-up, tier-up (boots), see larer. **tier-up;** (i) ties up cut materials for cloth hats into bundles, ready for machinist; (ii) (furling); ster; sorts cloth cuttings and cut out trimmings into bundles according to size, and to garment for which they are intended, e.g. coats, vests, or trousers. **tier-up;** also takes up cut material with distinguishing slips under string, and passes to fitting-up department.

tipper (clogs), see ironer.

tie capper (clogs); an ironer *q.v.* who nails on metal toe-caps of clogs by hand.

milker (grain milling), a machine minder *g.v.* in charge of machine which mixes different kinds of wheat, adjusts, by means of a screw, the rollers at foot of chutes, by which flow of different kinds of wheat, delivered through each chute, is controlled; wheat is then automatically delivered, in correct proportions, on to a running belt, which conveys it to elevators serving grain-cleaning machines; takes samples from time to time to see that wheat is being mixed in correct proportions; work usually done by screenerman *g.v.*

pearl barley maker, *see* machine minder, pearl barley.
purifier man; keeps in running order, a number of purifying machines, which are fed automatically, through chutes, with semolina, middlings, and "dunst," and which separate small bran particles from remaining flour by a wind current; starts and stops each machine, as necessary, by operating a hand handle, slides or to discharge driving belt; regulates current of wind, when necessary, by means of valves; *cf.* aspirator man, silksman.

roller (rolled oats); a machine minder *g.v.* in charge of one or more machines fitted with heavy rollers for crushing oats; regulates, by a hand-moved slide or damper, supply of oats, which pass automatically from milling machines through chutes; product passes automatically into another chute, and is bagged by packer (349) *g.v.*

rollerman (flour mill); grinder, corn grinder; a machine minder *g.v.* in charge of several milling machines in which corn is ground by fluted steel rollers; turns screw to adjust rollers, starts and stops machine by moving a lever; feeds product with his fingers from time to time to ensure correct fineness of grinding; sometimes also in charge of other machines, *e.g.* separators; *cf.* separator minder.

scalper, scalpier, *see* silksman, second.

screenerman; grain cleaner, screener; a machine minder *g.v.* in charge of whole series of grain cleaning machines, *i.e.*, separators, scourers, washers, winnowers, conditioners, brush machines, and machines for extracting oats, barley and corkle seeds; distinguished from actual milling machines; grain passes automatically from one machine to another; with assistance of labourer, adjusts valves governing air current so that correct proportion of husk, etc., is separated from grain; adjusts corkle cylinders and sets grinding rollers by means of screw adjustment, lever or other device; starts and stops machines by moving levers which engage the discharge driving belts; his rollers, etc., prevent various sets of machines becoming unbalanced, by cutting out one set, or by combining two or more sets, as required, according to their relative capacities; keeps machines and all cleaning house clean and in good working condition; sometimes also does work of mixer *g.v.*

separator minder; attends machine which separates germ from starchy portion of maize in manufacture of corn flour or of maize starch, or which separates germ together with starchy portion from hard gritty portion; cleans perforations of machine sieve; bags product of machine; adjusts wind-valves so that correct proportion of husk, etc., is taken from grain; cleans machine and sometimes does sweeping, trucking, and other odd jobs; sometimes also has charge of other machines, *e.g.* grinding machines.

sheller, oatmeal; sheller man, *see* groat maker.

silksman, first silksman; flour dresser; watches several dressing machines (which are fed mechanically from grinding machines by chutes, and automatically sift flour, and sort

it according to grades of fineness) to see that they are working correctly; takes samples of flour from each machine from time to time, by hand, with a scoop, for examination by head miller; if sample shows that a silk is burnt or broken, stops machine by slipping off driving belt with a hand lever, and repairs silk by patching, with a piece of calico or other material, or replaces it with a new silk; sometimes also attends to blanching machine; *see* blancher (418) or does work of second silksman *g.v.*

silksman, second; scalper, scalpier; *see* first silksman *g.v.* but serves as finer, and made of wire instead of silk.

snouterman, *see* screenerman.

stoneman; corn grinder, grinder; *see* rollerman *g.v.* but works in a mill where stones are used for grinding instead of rollers; dresses grinding stones, as required.

waterman; a machine minder *g.v.* in charge of a series of machines for cleaning grain by wet process as distinguished from screenerman *g.v.* who cleans grain by dry process; adjusts slides of mixer to control mixture of grain; adjusts separating valves of stoming machine, which separates stones from grain; controls force of water flow in grain rinsing machine; switches on and off whizzer, watches gauges and regulates steam coils in hydraulizer, in which grain is dried.

433.—BAKERS AND PASTRY COOKS.

(Including BISCUIT MAKERS).

assistant (cake decorating, etc.); decorates cakes, pastry, or biscuits, with butter cream, icing, jam, etc., using tubes and small moulding tools, and embellishing with nuts, cherries, etc., as directed; copies samples received from designer *g.v.* or works under direction and supervision of designer.

assistant mixer, *see* mixing machine minder (biscuits).

baker; (i) in large factories, general term covering all skilled workers engaged in bread making, *i.e.* dough making, table work (moulding, etc.) and baking, including kneader (hand), mixer, machine minder (bread), moulder (bakery), moulding machine minder, ovenman *g.v.*; (ii) in small establishments, an experienced worker able to perform all operations connected with baking; is senior in bakehouse and directs operations of mixing, moulding and baking, checks temperature of oven, etc.; *cf.* second hand, third hand.

baker, biscuit, *see* ovenman.

baker, hand biscuit; in hotel establishments, mixes, kneads, cuts out, etc., by hand, pastry required for biscuits and cake making; may also bake in oven, *see* ovenman.

baker, Jewish bread; performs any set of operations involved in bread making at Jewish bakery, *i.e.* dough making, table work, etc., in case of making ordinary white bread containing yeast and salt; also participates in and superintends mixing of rye dough containing salt but no yeast; kneading of dough, and baking, and wiping over with potato water during baking of rye bread.

baker, matzo (or matzoh); using a spill, *i.e.* a metal disc mounted on a long wooden rod, expeditiously rotates circular matzo around, *i.e.* Jewish Passover bread, as it completes the circuit in a revolving open-fronted oven, the fire of which is built round the edge of the oven; stokes fire and regulates speed of revolving oven by power switch; when trays are used, places trays containing matzo bread into rotating oven and removes when matzo is baked.

baker and confectionery performs any or all of duties in a bakehouse, *see* baker, pastry cook; is usually engaged in small establishments, where he makes and bakes bread, mixes ingredients for cakes and pastry, and either himself shapes and bakes cakes or superintends shaping and baking.

baker's assistant (male); is employed in a small establishment to assist baker *g.v.* in any of the kneading operations, to attend to oven, to stoke fire, to carry loaves to and from oven, etc.; *cf.* second hand, third hand.

biscuit makings; general term for any process tending to doughing, cutting, dropping, rolling, or other machine used in biscuit making, including brake operator, dough breaker, machine minder (biscuit), mixing machine minder *g.v.*

boardman, *see* table band.

brake operator, brakeman, breakman; roller; is one of two men who operate brake which is used in pressing, with rollers, kneaded paste into sheets, preparatory to biscuit stamping; *see* biscuit machine minder, cuts, from a tub, pieces of dough, approximately 1 oz. each, according to size, which he puts into rollers of machine, raising or lowering them by means of levers; sets rollers in motion, feeds dough thereon and stops machine when dough has passed through; turns in ends and sides of flattened dough, leaves space between rollers, reverses machine and re-rolls dough; continues these operations until dough has acquired correct consistency and thickness; finally, cuts dough, by hand, into suitable sizes and lifts it on to table near biscuit machine.

bread maker; general term distinguishing skilled operatives engaged in bread making as distinct from cake making, *etc.*, *cf.* baker.

cake mixer, mixer; a man or small goods maker, small goods man; mixes ingredients, either by hand or in a mixing machine, for cakes, buns, scones, and other small goods, and sometimes also for pastry (except in establishments where a separate pastrycook *g.v.* specialising in pastry goods, is employed); kneads, rolls, shapes, and bakes cakes, etc., *cf.* cake mixer; mixes ingredients for cakes, either by hand, kneading, etc., in bowl or similar vessel, or by machine; mixes in a small goods mixer, moulder machine minder for mixing machine minder (biscuits).

confectioner (flour); a pastrycook (or baker); a pastrycook *g.v.* or a cake baker *g.v.* making and baking cakes, pastry, etc., for confectionery side of a retail baker and confectioner's business, as distinguished from bread baker who makes and bakes bread only.

cornet maker; (i) in charge of an ice-cream cone making machine, which is automatically fed with paste, paste being then forced into cornet moulds and heated by gas or otherwise; starts and stops machine by turning a lever; regulates paste as turning gas jets up and down, or otherwise; changes moulds; is sometimes also in charge of other machines, *e.g.* water machine, *cf.* water machinist; (ii) mixes a paste of flour and sugar with a little yeast in bowl, fills cornets with cream, jam, etc., though this may be done by another worker, *e.g.* a pastrycook or cake maker *g.v.*

crumpet baker, crumpet maker, *see* muffin maker.

decorator (flour confectionery), *see* ornamental baker.

designer (flour confectionery); a decorator *g.v.* who designs floral and other fancy shapes in cream, icing, and jam, sometimes embellished with

nuts, cherries, etc., directs and supervises assistants (cake decorating) g.v. who carry out these designs; sometimes does best class of decorating himself throughout.

dog biscuit maker, mixes ingredients for dog biscuits in a mixing machine, duties vary according to type of machine, but usually either empties weighed ingredients into hopper of machine, or starts or stops machine by moving a lever or is in charge of machine or machines forming part of a series, connected by automatic devices.

dough breaker; (i) a baker's assistant g.v. who puts dough, by hand, into hopper of dough breaking machine; starts and stops machine by hand lever; (ii) a baker's assistant g.v. who breaks dough after it has risen, by hand, in preparation for kneading.

dough maker, doughman, in large establishments, is exclusively engaged in dough-making processes, e.g. mixing, kneading and setting sponge; for operations, see kneader (hand), mixing machine minder.

general hand (four confectionery), see pastrycook.

icee (four confectionery), sugar icee; mixes icing sugar, white of egg and flavouring essences; applies mixture to cakes and pastry with flat knife or with icing tube; may also assist in other operations in bakeryhouse, e.g. mixing or baking; cf. ornamentier.

kneader (hand); kneads dough in a wooden trough, working it backward and forward with fists and elbows, turning it over and over until ready; in small bakeries, performs other work as well as kneading, e.g. moulding, see moulder (bakery), or works at oven, see ovenman.

kneader (machine), see mixing machine minder (bread).

machine minder (biscuit), biscuit machine minder; operates machine which rolls prepared dough to required thickness and back cuts and stamps it to size and shape required; adjusts rollers by means of handles and screwing arrangements; fixes and adjusts cutters and dies, according to biscuit required, by means of bits and bolts; regulates speed of machine according to consistency and composition of dough, which in turn is governed by weather conditions.

machine minder (dough), dough machine minder, see mixing machine minder (bread).

matzo assistant, works at small mixing machine, brake machine, etc. (see mixer, brakeman, etc.) or is stationed below in bakeryhouse; in latter case, performs one of several operations, either pie stamping.

matzo (Jewish Passover), bread shapes (from travelling band, or, placing a disc across palm of hand, throws on to stone bottom of revolving oven in such manner that the matzo lies perfectly flat and uncracked, or receives and stacks baked matzo from matzo baker g.v.; where trays are used, places matzo in trays and/or feeds oven with filled trays.

matzo (or matzoth) mixer; a mixer g.v. who mixes ritually cleansed wheaten flour (obtained from court of chief Rabbi) and water into a stiff paste to make matzo, i.e. Jewish Passover bread.

matzo (or matzoth) rollerman; a brake operator g.v. who operates machine for rolling-out, perforating and cutting into rounds the stiff paste for making matzo, i.e. Jewish Passover bread.

mixer, mixing machine minder, mixing machinist (biscuits); assistant mixer, paste maker (biscuit); empties, by hand, flour and other dry weighed ingredients into biscuits paste (cf. mixing room worker (449)) from containers into receptacle of machine; adds milk of water from measures and starts machine by means of levers; tests state of paste

by sight and touch, and, when correct consistency has been obtained, stops machine, releases paste receptacle and wheels it to brake operator g.v. and interchangeable with mixing machine minder (bread) g.v. mixer, mixing machine minder (bread); dough machine minder, kneader (machine), machine minder (dough), feeds mixing and kneading machine alternately with flour and hot water, adding salt and yeast, by filling hoppers, which, when full, contain correct amounts to be fed; pulls hoppers into position above machine and empties by means of hand wheel governing hopper slide, starts machine by means of a lever, and after about ten minutes, tests by hand, consistency of dough; during kneading, pulls adhering dough from sides of machine to ensure thorough mixing; stops machine when kneading is complete, tilts dough by releasing lever, and pulls it out by hand into an adjoining trough to be wheeled away, weighed, moulded and baked; is not interchangeable with mixing machine minder (biscuits) g.v. mixer, mixing machine minder (pudding pastry); in large factories, is sometimes engaged on making puff pastry by means of mixing machine, see mixing machine minder (biscuits) g.v. mixer, mixing machine minder (pudding pastry); (i) moulds, by hand, weighed portions of kneaded dough into loaves; in small establishments, also moulds tins and may perform other work, e.g. baking, see moulder (bakery); (ii) see moulding machine minder.

moulder (biscuits); divides biscuit mixture into portions, and moulds and shapes, by hand, with fancy cutters, into biscuits of the cake type, e.g. fairy cakes; cf. machine minder (biscuit).

moulding machine minder; **moulder** (bakery); sets bread moulding machine in motion; cuts quantity of dough from a trough, and places it on a canvas belt conveying dough to be automatically cut, weighed, shaped, and carried forward; periodically tests weight of machine-cut dough, on hand scales, to ensure that machine is working accurately.

muffin baker, muffin maker; a baker g.v. engaged on hand mixing and kneading dough, and moulding and baking it to make muffins; at large establishments, where quantities of muffins are made during winter months, receives dough ready mixed and kneaded from mixing machine minder (bread) g.v.

oat cake man, oat cake baker; mixes oatmeal, butter, salt and water together; rolls paste, by hand, with rolling pin; stamps or cuts out cake shapes with hand cutters, and bakes them on a griddle or hot plate.

ornamentier, decorator (four confectionery); at a large factory, bakes-up ornamentation on spade with icing sugar, fruit, etc. working from a design; occasionally, roughly designs cake on paper before ornamenting; cf. pastrycook.

ovenman, ovenman; (i) biscuit baker; in large factory, a baker g.v. who specialises in bread or biscuit baking; regulates temperature of tunnel-shaped oven through which trays of bread dough or paste biscuits travel slowly, baking as they go, and emerging when fully baked; controls the speed of travelling, on which he places trays, and so regulates speed and degree of baking. In particular, knows from experience, ascertaining by touch, when oven is fit to receive tins of bread dough or biscuit paste; removes trays as they emerge and stacks them for removal to sorting room; (ii) biscuit baker; in small establishments, bakes bread, biscuits, and cakes in a tunnel-shaped oven having fixed bottom (not rotating); regulates heat of oven by tests by touch; inserts bread, etc., by hand, in oven, inspects from time

to time during baking, increases or decreases heat, if necessary, and removes bread, etc., when baking is complete; if engaged on rotary oven (unusual), regulates speed of chains to put bread, biscuit, or cake making; work may be done by baker, second hand, or third hand, or a parkin baker, parkin mucker; a pastrycook g.v. who specialises in making parkin, a cake (or biscuit) of oatmeal and treacle; mixes treacle and oatmeal into paste, by hand, in bowl or similar vessel, rolls it, draughts by hand, into cakes, and bakes cakes on hot plate or griddle.

paste maker (biscuits), see mixing machine minder (biscuits).

paste maker (pudding pastry), pastry; specialises in making puff pastry, mixes ingredients by hand, or receives ready mixed paste from mixing machine minder g.v.; rolls and cuts-out shapes, adds jam, etc., decorates, and bakes, or superheats baking, cf. pastrycook.

pastrycook, **pastryman** (four), **general hand** (four confectionery), duties vary according to type of establishment, but usually mixes ingredients for pastry, and often also for cakes, buns, and other small goods, in small establishments, specialises in pastry as distinguished from cake baker g.v.; kneads, rolls, and shapes, by hand, pastry, etc., and bakes in an oven; stacks fire and regulates heat of oven by moving dampers in or out, or turning draughts through, or gives directions as to stoking of fire and regulating of heat; sometimes also shapes, raises and bakes hollow moulds to enclose pheasant, rabbit, etc., see pie raiser; in small establishments, also makes wedding cakes, and does work of decorator g.v.; is often able to make pies, buns, and cook meat.

pie maker, pie baker; in large catering establishments, specialises on pie making and baking; may be assisted by pie raiser g.v. who more generally, carries through whole operations, i.e. mixes paste and shapes pie, by hand, fills with meat and bakes; work done by baker and confectioner g.v. in small establishments.

pie raiser, shapes raised or hollow tops for pies, by pressing thin paste over a wooden mould of required shape and size, inserting mould and lifting it, leaving shape of paste on table or bench; cf. pastrycook, pie moulder.

pikulet baker, pikulet maker, as for muffin maker.

pork pie maker, as for pie maker; cf. small goods maker (448).

rollman, see brake operator.

scots maker, scots baker; a pastrycook g.v. who specialises in making scots, mixes, by hand, flour, sugar, milk, butter and baking powder into a light dough; kneads, rolls-out and moulds into circular flat cakes and bakes them on a hot stone, hot iron plate, griddle, etc., or on a Scotch forehead, a working foreman having only one or two men under him; takes part in mixing, baking, etc.; is usually engaged in small establishments.

second hand, in small establishments, does any skilled work connected with baking bread, etc., as chief assistant to baker g.v.; takes charge in absence of baker.

small goods maker, small goods man, see cake maker.

sponge mixer; breaks eggs and weighs out sugar into special mixing machine, pours mixture into bath, adds weighed quantity of flour stirring it in, by hand; greases tin for cooking; work often performed by pastrycook g.v. in small establishments.

table hand, table man (bakery); **tableman**; general terms for any working or engaged in weighing, moulding, or other work done at a table, as distinguished from ovenman g.v.

third hand; a youth, generally an apprentice or an improver, employed on one or all of baking operations (see baker) according to his ability.

water machinist; water maker; water mixer; starts and stops machines, which is automatically fed with water; works by moving levers; regulates temperature of moulds by turning up or down gas jets which heat moulds, or otherwise; removes sheets of water as they come out of machine, and places them ready for the cutter, *q.v.*; is sometimes also in charge of other machines, *e.g.* cornet making machines; *cf.* cornet maker.

water maker; (i) mixes flour and linings with a little yeast into a paste; colours the mixture and spreads it on tin plates in very thin sheets, dries it in a stove and cuts into water shapes; (ii) *see* water machinist.

water mixer; see water machinist.

434.—SUGAR AND SWEET BOILERS.

butterscotch maker; a sugar boiler *q.v.* making butterscotch, *i.e.* toffee in which sugar and butter are the main ingredients.

caramel maker; a sugar boiler *q.v.* making caramel, paste, in which sugar, butter or cream, milk and flavouring essence are the main ingredients.

gun boiler; see starch hand (male).

liqueurice boiler, liqueurice boilerman, liqueurice maker; places small pieces of block liqueurice with water into a steam-jacketed pan; adds steam mixture, while boiling, with wooden or metal ladle; skims impurities from top and adds more water, as required, during boiling, until liqueurice paste is formed.

nougat boiler; weighs out almonds or pistachio nuts, sugar, and other ingredients of nougat, in exact proportions, according to recipe; puts ingredients in a steam-jacketed pan, heat of which he regulates by means of valves, and removes from pan when properly boiled.

pan hand, pan man, pan work hand; puts a quantity (varying with size of pan) of almonds or other sweet centres into a steam-heated pan, temperature of which he controls by means of steam valves; moves lever to set pan revolving; as pan revolves, pours syrup, *i.e.* liquid sugar, over centres, which are coated and polished by revolving to prevent "gum" and removes completed sweetmeats.

starch hand (male), male starch hand; gun boiler; weighs on scales, *cf.* measure, by means of measuring glass, ingredients for gums, mainly gelatine and butter; mixes and boils, as for sugar boiler; pours the mixture, known as "gum" or "boil," when boiled, into trays or moulds, sized according to sweetmeat required, and starches to prevent "gum" sticking to sides; is responsible for steady temperature of drying room and drying of gums; is assisted by female starch hand (440) *q.v.*

sugar boiler (drinks); measures out prescribed quantities of sugar, and pours them into steam-heated pans; controls temperature of pans by means of steam valves; runs water into pans and stirs sugar and water together; adds flavourings during boiling, and stirs them in; when sugar is completely dissolved, runs solution into containers, sometimes through felt bags or through filter papers.

sugar boiler, sweet boiler; is responsible for mixing, boiling and colouring of boiled sugar sweets, including butterscotch, toffee and caramels; mixes ingredients by hand, using ladle or similar implement, and boils mixture in pan, as a boiler, or "sugar," in a steam-jacketed open copper or vacuum pan, or, in small

establishments, in pans over coke fire; turns out sugar, when ready, on to iron slabs, adds colouring matter, consisting of sandline dye and water, to sugar, by means of stick, or other suitable instrument, and kneads sugar, by hand, to distribute colour evenly; except in very small firms, is assisted in one or more operations, *e.g.* weighing ingredients, mixing, sliding pans with sugar, colouring, by confectioner's assistant (448) *q.v.*

toffee boiler, toffee boiler, toffee man, toffee maker; a sugar boiler *q.v.* who makes toffee, in which toffee and butter are main ingredients.

435.—SUGAR CONFECTIONERY MAKERS, MOULDERS AND COVERERS.

almond paste maker, almond paste worker, *cf.* for marzipan worker (machinist process); barley sugar twister; cuts strips of half-boiled barley sugar, rolls it by hand on slab until twisted into required shape, is sometimes employed part time in other work, *e.g.* as sugar boiler (drinks) (434) *q.v.*

bon-bon maker (sweets); puts fruit pulp on slab of half-boiled boiled sugar; folds sugar over fruit; puts fruit, with sugar folded over it, into machine having shaped rollers which mould and elongate it; starts and stops machine by moving a lever; cuts bon-bon lengths, by hand, into strips ready for breaking up; or cuts folded slabs into small fancy shapes with hand tools, and moulds them in moulds.

braker, lozenge machine; lozenge cutter, lozenge machine hand, lozenge pinner; a worker who attends a brake machine and performs one of the three following operations: (i) sets rollers of machine, by means of a screw device, so that they will roll lozenge paste to thickness required; puts lozenge paste into hopper of machine, whence it passes automatically between rollers, which tell it into a sheet of required thickness; guides paste as it emerges from rollers on to an endless conveyor; starts and stops machine by moving a lever; (ii) is stationed at centre of brake machine to see that paste takes "true" under lozenge rollers; guides paste as it is carried along on conveyor; screws in or unscrews cutters, as required, for cutting lozenges of different sizes; (iii) picks up lozenges from delivery conveyor and puts them on trays; carries trays to drying room.

cake maker (liqueurice); cake, Pomfret cake maker, Pomfret cake maker; tips off and hand stamps boiled liqueurice paste into cakes or buns; is sometimes employed part time in other work, *e.g.* as machine minder, lozenge cutter *q.v.* or in boxing, packing, etc.

cake presser (liqueurice); a cake maker (liqueurice) *q.v.* who works a hand or power press to stamp out liqueurice shapes.

coaker, *see* cake maker (liqueurice).

chocolate tablet maker; covers sugar tablets with chocolate; druses *cf.* for chocolate coverer.

confectioner, confectionary hand, confectionary maker (sugar), sugar confectionary maker; spice maker (Yorkshire), sweetmeat maker, sweet-stuff maker; general terms for any worker engaged in any process of making sweetmeats, including coverer, cutter, moulder, runner-out *q.v.*

coverer, chocolates; chocolate dipper, cream coverer; (i) places block chocolate on a steam-heated slab, and reduces temperature of slab by means of steam valves; when chocolate is of correct consistency (ascertained by testing with fingers) throws almonds or other sweet centres into it, takes out centres, now covered with chocolate; if necessary, adds

leaves, *i.e.* leaf-patterns in sugar, cream, nuts, etc.; (ii) *see* covering machine attendant.

coverer, cream, *see* coverer, chocolate.

coverer (sugar confectionery); immerses almonds or other sweet centres in chocolate, icing, or other paste, as for chocolate coverer or covering machine attendant.

covering machine attendant, chocolate cream, covering machines attendant; chocolate coverer, chocolate dipper, cream coverer; (i) (male worker) attends a number of chocolate machines (usually about six); pours chocolate into hoppers of machines; governs temperature of chocolate by regulating hot water or steam valves, regulates speed of revolving drums, etc., so governing feed, and, ultimately, thickness of chocolate covering; starts and stops machines by loose pulley or power switch. (ii) (female worker) places centres on travelling band conveying them through tunnel in chocolate spraying (covering) machine and removes chocolates from conveyor as they emerge from machine and places them in cooling trays.

cream hand (liqueurice), *see* roller-out.

crystalliser (sweets); crystallises (ellies, pastilles, etc.), by placing wire baskets filled with sweets in steam-jacketed pans containing melted sugar; removes basket when sweets are impregnated with crystallised sugar; allows sweets to drain, and spreads them on trays to dry.

cutter, liqueurice cake; liqueurice paste cutter; cuts bars, circular sheets, rods, or tubes of liqueurice paste, by hand roller knife.

cutter, lozenge, *see* braker, lozenge machine.

cutter, nougat; (i) places slabs of nougat on a travelling band, which carries them under mechanical cutters; takes them off at other end, and places them on another travelling band, set at right angles to first, which carries them under another set of cutters; takes off machines and stacks slabs of nougat (which are not cut quite through); starts and stops cutters and travelling bands by moving levers; (ii) passes slabs of nougat between crimping rollers which indent them, *i.e.* partially cut them through, to make it easier to break them into squares; starts and stops machine by moving a lever; (iii) cuts nougat into bars with a wire power-driven circular cutter, which is set in motion by moving a lever.

cutting machine hand; feeds sheet of "all sorts" paste, *i.e.* sweetmeat containing liqueurice, into cutting machine and operates machine by levers.

decorator, confectionery, *see* piper, confectionary.

depository hand (sweets); grepper (sweets); fills a funnel, having one or more holes with steam-heated or other sweet paste; presses a rod or band plunger, which forces enough paste through funnel to fill a starch mould or rubber mat mould.

dipper (bon-bons); toffee dipper; puts almonds or other nuts into copper pan of hot butter toffee, with a wire spoon; regulates temperature of pan by turning on or off gas or other source of heat; withdraws nuts with wire covered, and puts them on tray to set and dry in current of cold air.

dipper, chocolate, *see* coverer.

dipper, fourré; fondant dipper; beats fourré mixture (cream) in a steam-heated pan, and regulates temperature by means of valves; throws in almonds or other sweet centres and picks them out, covered with fourré, with a spoon; gathers up a quantity of cream with a fork, *i.e.* a small metal ring mounted on a handle, and forms therewith wheels or other designs; adds leaves (leaf patterns in sugar, etc.) if required.

dipper, toffee, *see* dipper, butter

dropper (sweets); (i) see depository hand; (ii) see runner-out (sweets).
 fondant maker (sweets); a runner-out (sweets) g.v. engaged in filling moulds with fondant cream.

French confectionery maker (sweets); makes marzipan fruits, coloured and flavoured marzipan squares, fondants and other French confectionery, by hand or by machine; weighs out ingredients in exact proportions, to that, when mixed, they will produce colouring and flavouring required; feeds mixing machine with these ingredients, controlling machine by means of a lever; blends creams, if required; sometimes shapes articles e.g. strawberries, in hand-moulded moulds, and decorates them with hand tools; cf. moulder, runner-out, gum maker (sweets), see moulder, gum.

jube maker, jujube maker; a runner-out (sweets) g.v. engaged in moulding jujubes.
 kneader, see paste strainer (liqueur).

liqueurice machine hand; handles liqueurice paste into feed trough of machine, where it passes under a metallic beater rollers, which roll it to desired thickness; thence it passes under cutters, which cut it automatically to required shape, e.g. cushions, or through dies, which force it into shape of rods, tubes, etc.; starts and stops machine and takes out and replaces dies, as required.

lozenge hand, see lozenge maker.

lozenge machine hand, see braker, lozenge machine.

lozenge maker; lozenge hand; general term for any worker engaged in any process of making lozenges, including lozenge cutter, lozenge runner, lozenge paste mixer g.v.

lozenge planer; (i) see braker, lozenge machine; (ii) (less usually, and only in small firms) rolls lozenge paste into a slab with metal roller; regulates space between rollers of rolling machine by means of a screw device; passes slab of paste between rollers of machine, which compress them into sheets of required thickness, stamps or prints name of lozenge in rows over entire sheets, and cuts out lozenges, with knife in centre, with a hand punch.
 marzipan maker, marzipan mixer; an almond paste maker g.v. mixing paste for marzipan.

marzipan worker, marzipan roller; (i) (moulding process) measures out ground almonds, sugar, colouring and other ingredients, in proportions determined by French confectionery maker g.v.; pours ingredients into automatic machine fitted with rollers, which reduce them to a paste for use in making marzipan cakes or other sweets; starts machine and adjusts rollers during rolling process, by a screw device, so that paste is gradually reduced in thickness; (ii) takes a number of differently coloured sheets of marzipan paste made by machine (as above), lays them one above another in layers, and rolls them lightly by hand, in preparation for cutting into fruits, squares, cushions or other shapes; sometimes also moulds them by hand, into fruits and fancy shapes, using hand moulds and small tools.

mixer, lozenge paste; attends three or four mixing pans, in which lozenge paste is mechanically mixed; weighs out ingredients, e.g. sugar, glucose, gelatine, colouring and flavouring, in exact proportions according to recipe, throws sugar, glucose, and gelatine into metal pan of machine, where they are mixed with whirling arms; lowers end of mixing process adds colouring and flavouring; when paste is properly mixed, scoops it out of pan.

mixer, nougat; nougat whaler; mixes boiled ingredients of nougat in a pan fitted with whirling arms, see lozenge paste mixer; when correct

consistency is reached, scoops nougat out of pan and leaves it to cool in trays.

moulded sweets maker, see moulder (sweets).

moulder, chocolate; temperer; (i) weighs refined chocolate paste from machine into moulds for making tablets or bars; shakes mould well to remove bubbles in paste and ensure solidness; (ii) spreads chocolate paste, intended for making Easter eggs, cakes, etc., in metal moulds, places moulds in cool place to harden chocolate, then knocks it out of mould.

moulder, confectionery, see moulder (sweets).

moulder, cream (chocolate); a runner-out g.v. who pours cream (for chocolate centres) into hopper of machine, which automatically fills starch moulds or rubber mat moulds therewith.

moulder, fondant (sweets); a runner-out g.v. engaged in moulding fondants.

moulder, gum (sweets); gum maker; a runner-out g.v. engaged in moulding gum sweets.

moulder, insert; moulds prepared marzipan paste into fancy shapes in hand moulds; cf. marzipan worker.

moulder (sweets); confectionery moulder, moulded sweets maker; general term for any person making moulded sweets, including drop-maker hand, marzipan moulder, runner-out g.v.

moulds maker (sweets); forms moulds for use in moulding fondants, gums, jujubes, etc.; by making impressions in surface of powdered starch contained in trays, uses a row of pat terms attached to a flat strip of wood; work usually done by runner-out g.v.

nougat hand; (i) general term covering workers engaged in making nougat, who are interchangeable, including nougat boiler (434), nougat cutter, nougat mixer g.v.; (ii) mixes almonds or pistachio nuts into sugar paste, by hand, and rolls mixture flat with a long, thin, flat bar.
 nougat whaler, see mixer, nougat.
 novelty maker (liqueurice), see pipier, liqueurice.

paste hand; general term for any worker engaged in making paste goods, e.g. liqueurice, nougat, etc.; includes almond paste maker, lozenge planer g.v.

paste strainer (liqueurice), kneader-fills hopper of kneading machine with liqueurice paste, lumps in which are broken up by machine; starts and stops machine by means of a lever.
 pellet maker (liqueurice); pushes and guides sheets of liqueurice paste between rollers of drop machine, which shapes paste into drops or pellets; starts and stops machine by moving a lever.

paper, confectionery; confectionery decorator; decorates larger sweetmeats, e.g. Easter eggs, with designs by squeezing over them icing (sugar paste) through a stencil, i.e. a hard sheet is fastened to a linen bag filled with icing; sometimes also does work of marzipan worker or lozenge machine hand g.v. or may be partially engaged in packing, labelling, etc.

paper, liqueurice; novelty water (liqueurice); makes paste, recovered from paste strainer g.v., into "novelty" pipes, by hand.

Pomfrot or Pontefract cake maker, see cake maker (liqueurice).

rock hand; (i) weighs out, in exact proportions, according to a formula, ingredients of rock, i.e. a hard sweet, usually sold in form of sticks; boils them in steam-jacketed pans, regulating temperature by means of steam valves; builds up a mass of rock on a bench, by tapping, i.e. plating layers of red and white boiled sugar carefully, one on top of another, so that they form words and remain in correct order and undisturbed when rock is pulled; takes one end of mass between the fingers and pulls it so that it becomes

gradually elongated and attenuated, and assumes a cylindrical form; when plastic rock has been drawn to required length (gauged by means of standard rods) passes it to less skilled rock hand, who keeps rolling it to retain its cylindrical shape until other rock hand is ready to continue pulling it to its final diameter; (ii) (less usually) pulls a certain quantity of boiled sugar from the "mass," by hand, and draws it out until it becomes attenuated into a long plastic cylinder; or feeds with boiled sugar, automatically measuring which works it up into rock on slowly revolving bars; starts and stops machine by moving a lever; removes rock, when worked to proper consistency, from bars of machine; lays lengths of differently coloured sugar, while still plastic, together to make fancy rocks, and works them into patterns, by hand or by machine.

roller, ball (hall sweets); passes prepared sticks of half-cooled boiled sugar between rollers of balling machine (operated by means of a lever) which cuts and rolls sticks into small balls; clears delivery tray of machine.

roller, caramel; a roller g.v. who rolls caramel prepared at a separate station.

roller (sweets); pours paste or other material into hopper of rolling machine; regulates space between rollers of machine, if necessary, by screw device; starts and stops machine and clears delivery tray. It is often employed by means of other work, e.g. as marzipan worker, or rock hand g.v.

roller-out (liqueurice); cream hand (liqueurice); a roller g.v. who rolls liqueurice cream into liqueurice sheets; intends to shape required for alcoria, i.e. sheets containing a layer of red of liqueurice paste.

runner-out (sweets); dropper; makes chocolate creams, gums, fondants, jellies, etc., by pouring cream, gum, etc., into hopper of machine, which automatically fills starch moulds or rubber mat moulds therewith, by allowing cream, gum, etc., to drop on to moulds moving at a regulated speed on conveyors; starts and stops machinery by moving a lever.

slab hand (sweets); general term for any worker engaged in manipulating boiled sugar on slabs or tables, or in attending moulding machines, including toffee maker, bon-bon maker, barley sugar twister g.v.

spice maker (sweets); Yorkshire term, see confectioner (sugar).

starch, starch hand (sweets); starch room worker; assists generally in starch room; fills trays with dry powdered starch before they are taken to moulding room; knocks out moulded sweets from starch trays; lifts them clear of starch, and stacks them in trays in packing room.

starch machine hand (sweets); a runner-out g.v. attending machine in which gums, etc., are moulded in starch moulds.

starch room worker, see starch (sweets).

sweetmeat maker, sweetstuff maker, see confectioner (sugar).

templer, see moulder, chocolate.

tracer (chocolate); traces patterns in chocolate or icing sugar on top of chocolate sweets by squeezing warm liquid chocolate from an icing pipe.
 Turkish delight maker; weighs out correct proportions according to recipe, of ingredients for Turkish delight; puts them in correct sequence and at specified intervals, in steam-jacketed pans, and regulates heat by means of valves; sometimes also cuts product into squares or lumps, which he rolls in powdered sugar.

worker-off; a slab hand g.v. who rolls plastic boiled sugar into a thick roll, which is afterwards drawn into long sticks by drawer-off (440) g.v.

436.—JAM BOILERS.

holler, peel syrup; runs water into steam-heated copper pans, and regulates temperature by means of steam valves; weighs out sugar, or receives it ready weighed; boils and re-boils it until sugar is completely dissolved and has become a syrup of required consistency for use in making candied peel.

candied peel maker; (i) see candier, peel; (ii) general term covering peel cooker, peel syrup boiler, and peel candier *q.v.*

candier, peel; candied peel maker; receives peel from peel cooker *q.v.*, puts it in tubs, and pours syrup, received from peel syrup boiler *q.v.*, thereon; removes peel when it has absorbed enough syrup; lays it on trays to drain; puts it to dry in hot chamber, heat of which he regulates by means of steam valves; or, rolls it on rods of iron so that added sugar on surface dries shiny and hard; where work is sub-divided, supervises labourers engaged on various processes.

cooker, peel; receives peel from briner (440) *q.v.*, puts it in steam-heated vat and regulates temperature by means of steam valves; runs water into vat; when peel is soft enough for next process, removes it from vat.

fruit holler, *see* jam boiler; *cf.* fruit boiler (four confounders) (449).

jelly maker; jelly worker; weighs fruit, and empties it into steam or gas-heated copper; runs a measured quantity of water into copper; boils them together, regulating heat by controlling steam valves, gas jets, etc.; allows liquor to flow away through bags to filter it; weighs liquor, adds sugar, and re-boils until correct consistency is obtained; sometimes done by jam boiler *q.v.*; sometimes specifically designated, e.g. apple jelly maker.

jam boiler; fruit boiler; preserve maker; weighs or measures out exact quantities of fruit, sugar, water and other ingredients (if any) according to recipe; pours ingredients, in correct sequence and at stated intervals, into steam or gas-heated coppers; usually attends from six to ten coppers and regulates heat by controlling steam valves, gas jets, etc.; stirs contents of coppers, either by hand or by switching on mechanical stirrer; runs off jam, etc. into large receptacles, when correct consistency has been reached; sometimes also does work of fruit jelly maker *q.v.*

jam maker; general term covering workers engaged in jam making, including jam boiler, pan hand, jam splitter (440) *etc. q.v.*

jelly worker; *see* fruit jelly maker.

marmalade boiler, marmalade maker; *see* jam boiler; towards end of boiling process adds shredded peel of oranges or lemons which has been soaked.

pan hand; stirs mixture of fruit and sugar, intended for jam or marmalade, continuously whilst boiling; pours boiled jam into large receptacles from which jars are filled.

preserve maker, *see* jam boiler.

437.—MEAT AND FISH CURERS AND SMOKERS.

bacon curer; (i) stoker; cures large parts of bacon by injecting brine into bacon with a hollow needle syringe; cures thin parts or slices of bacon by laying them flat, stacking and entirely covering each layer with salt; removes salt from time to time and restacks sides; (ii) (mid curing)

butcher; soaks or pickles shoulders, legs or other parts, in tubs containing brine, removing after two or three days, to tables for draining; in some districts, also bones, skins, rolls and lies up sections of meat.

bacon dryer; (i) washes bacon in warm running water to remove borax from American bacon and stands or hangs it to drain and dry; is responsible for proper drying; (ii) dusts inside of carcasses with pea meal shaken by hand from a sieve, to absorb moisture left from curing; hooks and hangs carcasses into position in smoke chamber; removes carcasses when smoking process is complete.

bacon smoker, bacon stover; stoverman; has charge of a number of smoking chambers in which bacon is smoked in fumes of wood fire; superintends drying and basting of bacon or ham into chambers, *see* bacon dryer; spreads sawdust on floor of chambers and ignites; inspects chambers from time to time and regulates smoking by opening doors to direct fumes, burning sawdust, etc.; stokes fire; decides when process is complete and directs unloading of chambers, sweeps out or directs cleaning of chambers.

baithman, *see* bacon curer.

robberer; (i) *see* fish briner; (ii) cures herrings by covering the stacks (cobs) of prepared fish with salt; obsolescent method.

firer, firer-out, *see* smoker.

fish briner; robberer, fish splitter, rouser, rouser; carries split fish, docks, herrings, etc., from splitting tables to brine tubs; sometimes fish and occasionally turns about until thoroughly salted.

fish curer; general term applied to workers, e.g. fish briner, river curer *q.v.*, engaged in curing fish, e.g. herring, haddock.

fish house worker; general term applied to fish curers engaged in fish-house, especially in small houses where the work is not sectionalised, including smoker, prickner (446), river *q.v.*

fish splitter, *see* fish briner.

haddock curer, *see* fish curer.

haddock smoker, haddock woman; a smoker *q.v.* engaged in curing haddock.

ham curer, *see* for bacon curer.

ham dryer, *see* for bacon dryer.

ham smoker, ham stover, *see* for bacon smoker.

herring curer; a smoker or fish briner *q.v.*, curing herrings.

herring worker; general term applied to all workers in herring-curing yards, including fish gutter, fish splitter (445) *q.v.*

kipper curer; splits herrings with hand knife, salts in brine for an hour or two and hangs on rods in high kilns; keeps wood fires in kilns at level required; removes cured herrings, usually also cures red herrings similarly, leaving longer in kilns and not splitting; attends one to four (or more) kilns, number varying according to amount of work in hand; *cf.* fish smoker.

kipperer, kipper woman; a smoker *q.v.* engaged in curing herrings.

night smoker; a smoker *q.v.* who attends to smoke houses by night, retort hand; loads, unloads, and stokes fire or regulates, by steam pressure, heat of retorts or stoves on which cases of fish are cooked in smoking factory; unloads retort at end of specific interval.

river; redder, splitter, speeter; riever, i.e. "spares" prepared herrings by their gills on iron or wooden rods, in readiness for hanging in smoke houses by smoker *q.v.*; in some establishments may also hang rods in smoke house and remove them after curing, *see* striking hand.

rouser, rouser, *see* fish briner.

redder, *see* river.

smoker, fish smoker; firer, firer-out; places rows of prepared herrings or haddocks, etc., in closed smoke boxes filled with smoke from oak chip and sawdust; lights, replenishes and attends to smoke house fire, keeps fire at required level, and determines end of smoking process; duties vary according to type of fish being smoked, e.g. in smoking herrings for production of "book-line" (similar to red herring) or in smoking sprats, after a certain period of smoking, damps down fire to colour the fish in the fumes thus produced.

speeter, splitter, *see* river.

stacker, *see* bacon curer.

stoverman, *see* bacon smoker.

striking hand; in some establishments, removes herrings from smoke house after curing; work generally done by river *q.v.* or tenterer (449) *q.v.*

tankman; in export curing houses, empties herrings into salting tanks and monitors them with scoop, required, engaged on coast line when there is a glut of fish.

trimmer; cuts fish with hand knife and bones, and trims away superfluous parts, precise method depending upon type of fish upon which engaged.

443.—OTHER SKILLED WORKERS.

baking powder maker, baking powder operative; receives ingredients of baking powder, i.e. powdered tartaric acid and sodium bicarbonate, with ground rice or cornstarch as a diluent, from chemist or foreman, who decides proportions of each; sometimes weighs out quantities of minor ingredients according to instructions received from chemist or foreman; sometimes is himself responsible for quantities of each ingredient; places ingredients by hand, with a scoop, in mixing machine, or tips them from sacks into hopper of mixing machine and sets machine in motion; sometimes, when bag or barrel is not filled mechanically under attention of packers (446) *q.v.*, turns top or shutter, allowing mixture to flow into bags, barrels, or other receptacles, which he places under tap or shutter; places lid on barrel (if that is used) and secures it with a hoop, which he hammers into position; removes barrel, and puts another in position.

black pudding maker; blood pudding maker; mixes pigs' blood, cooked pearl rice, barley or groats, "fear" (pigs' back fat), minced veal or dripping, and seasoning according to recipe, using mixing and chopping machines, *cf.* machine-man, lads; sawage skin with mixture (*see* pudding filter); divides filled skins into convenient lengths by tying skin tightly; boils sausages, so formed, until cooked; *cf.* small goods man (sausages).

bleacher (dour mill); regulates, by means of valves, passage of electrically ionised air through bleaching machines, which are fed with dour mechanically; sees that transformers are not working according to recipe; sometimes also does work of dour blender *q.v.*

blender, butter; places butters of different origins in a worker or in a blending or kneading machine, *cf.* kneading table attendant (448), operates and controls machine so as to mix them thoroughly; removes blended butters ready for moulding.

blender, flour; adjusts valves or slides to direct streams of different kinds or grades of flour running through chutes from bins to mixer; cuts off or starts flow of flour from various bins, and regulates machines so that specified proportions are admitted to make blend required.

blender, mustard; mustard flour mixer; weights and empties by hand, down a chute, into hopper of mixing machine, prescribed quantities of different qualities of mustard flour; is responsible for correct proportions of each kind (determined by a recipe or formula), and sees that hopper is kept full; regulates hopper slide, by hand wheel, thus controlling rate of feeding (through chute) the mixing machine on floor below; folds and stacks empty sacks.

blender, tea; tea mixer; blends teas, according to directions of tea taster (756) g.v., to produce desired quality or flavour; opens packages and empties specified quantities of each sort into mixing machine, which mixes them, and delivers mixture through hopper to packing machine; when blending plant is not linked automatically to packing machine, may also empty machine into bags or cases.

blester parts maker, as for mixer (potted meats, etc.).

blood pudding maker, see black pudding maker.

blower, cut gut; gut blower; discharges to full size, by inflation from mouth, or with compressed air from special taps, undisturbed (which have first been cleaned and trimmed) removed from carcasses of oxen, sheep, or hogs; cuts lengths of gut suitable for sausage casings, etc., process now almost superseded by work of cutting velvet for g.v.

blow-up man, water blow-up man (sugar refining); opens valve allowing washed raw sugar to flow into blow-ups, i.e. large iron tanks in which raw sugar is melted in water; regulates valves controlling inlet of steam to heat water, adds water, as required, thus regulating density; brings liquor to definite gravity at a prescribed temperature; tests density with gauge; regulates temperature; adds purifying chemicals as directed by chemist; opens valve allowing liquor to run off; is sometimes in charge of all processes in raw sugar department.

boiler, jelly; weights or measures out prescribed quantity; opens and puts it into a steam-jacketed pan, regulating temperature by means of valves, runs or pours water into pan, in which sugar is dissolved and heated to required temperature; runs off solution into large shallow pans; weighs or measures out correct quantities of gelatine and flavouring essences, adds them to sugar solution, and stirs all together until gelatine is dissolved, attends a number of steam pans and stirring pans.

boiler, ox head; a kitchen hand (preparation factory) g.v. who boils ox heads in steam-jacketed coppers and cuts flesh therefrom for making brawn and tinned meat.

boiler, shrimp; boils shrimps and other shell fish in large steam-jacketed coppers in potted meat factory; removes beiled fish into trays to drain ready for shrimp shell g.v.

boiler, sugar (sugar refining); vacuum pan sugar boiler; pan Aond, pan mase (sugar refining); vacuum pan mase (sugar); opens liquor valve, to fill vacuum pan with liquor, operates vacuum valve, and admits steam by opening steam valve; observes temperature and vacuum gauges, and progress of boiling and grain formation through windows in pan walls; draws samples to test granulation and crystallisation, when process is complete, breaks vacuum by opening valve; draws pans by opening a valve which allows crystallised sugar to pass down chute to coolers (or "boilers"); books time of changing, and records progress of process and draws samples.

boiler, tongue; ox tongue boiler, as for boiler, ox head.

bondon maker, see cheese maker, bondon.

boner; (bones airing) removes, with a knife, bone from sections of pork, without waste, preparatory to rolling or sausage making; (meat preserving) bones, preparatory to preserving processes.

bottler, fruit, as for preserver, fruit. brawn maker; working from set recipe, cuts out meat and fat from pigs' heads, chops meat and sets into small pieces and places in steam-jacketed coppers; boils these pieces, and pours brawn, so made, into moulds to cool and set; cf. small goods man (sausages, etc.). butcher, vinegar; superintends processes of making, fermentation, acidification, and clarification, in manufacture of malt vinegar; determines temperature of steam rate and rate of flow of malt for mashing, amount of yeast for fermentation, etc., and instructs mash house man (449), vinegar pumper (449) g.v. and other workers engaged thereon.

brewer's saccharine maker, see insectivorous man.

butcher, see slaughterer; cf. butcher (757) and (770).

butcher, chicken, see slaughterer, Jewish.

butcher, pig, see killer, pig.

butcher, preserved meats and bacon factory; bacon cutter; cuts up pigs' carcasses for bacon curing; splits carcass into halves, and removes certain portions of side bones; in some Scottish works, cuts off only shoulders and flanks for curing purposes; cf. boner.

butter maker, butter churner, butter worker; tests cream with a thermometer to see whether it is at proper temperature for churning; tastes it, and otherwise examines it to ascertain whether it is "ripe"; if it is not, adds various agents to hasten process of "ripening"; pours cream, when ripe, into a churn, by hand; turns churn (if hand-driven) by wheel, with a handle, or, if mechanically driven, by driving belt or electric current, which turns churn mechanically; decides, by inspection or otherwise, when process of churning is complete; knocks out, by hand, plug at bottom of churn, to allow buttermilk to escape, and replaces plug; removes lid of churn, by hand, takes out cream (now become butter), and puts it on table of working-up machine, i.e. a large cylinder revolving in water in a well grooved wooden roller fixed from centre to one edge, which kneads butter, and squeezes out superfluous buttermilk or moisture; adds salt or washes with salt water, as required, to produce required flavour; tastes butter, and otherwise examines it, at frequent intervals, to ascertain if required flavour and consistency have been obtained.

canmer, fruit, see preserver, fruit.

caramel maker (sugar refining); prepares caramel, i.e. burnt sugar, for medicinal or colouring purposes, by heating crystallised cane sugar in super-heated steam pans to a given temperature; sugar having been poured into pans by labourers, watches gauges and regulates steam pressure to govern heating of sugar; tastes sugar content of caramel by saccharometer and by scrutinising, from knowledge of amount of heat employed, etc., determines colour value of heated sugar; when desired value has been obtained, shuts off steam, tests properties of caramel by placing samples in certain standard solutions and runs off caramel into cooling pans.

canein worker, see miller (dried milk, canein).

charge hand (sugar refinery), centrifugal machine charge hand (sugar); superintends process in centrifugal machine room where sugar crystals are drained and dried, and directs and supervises work of machine chargers (449) g.v.; instructs machine

chargers as to amount of crystal or alkali sugar to be placed in machines and length of treatment in machines, instructions, etc., as necessary; does running repairs to machines, or reports all breakdowns to works taster (216) g.v.

cheese maker (not on farms), mixes "working" milk with water, adds milk and tests acidity of mixture by tasting; pours milk (fresh or sour) from cans into a large steam-jacketed tank; watches temperature of milk in tank, which is kept at an even level; adds rennet by hand, to curdle milk; adds portion of whey, re-regulated into "curd" while liquid portion is separated out as whey; passes a knife methodically through curd, to prevent it forming into large clotted masses, and to keep it plastic, or more, less setting in motion electrically-driven knives, which pass slowly through curd, works curd with his hands, rubbing it between his fingers, or turning it over; when judged by repeated tasting, correct of ripening is complete, opens tap to allow whey to escape; places curd by hand on a perforated board to cool and drain, grinds curd, i.e. reduces it from large pieces, 4 or 5 inches in size, to pieces about 1 or 2 inch in size, by putting it in a machine, fitted with forks, and operated by hand; rubs in salt, wraps curd in a cloth binder, and puts it in a vat of brine which is stirred tighter every day; binder is changed every day; takes curd from vat or mould, and places it in a special blinder, compressing it slightly; cheeses are then taken to a loft or drying room, to dry, and mature; cheesemakers daily in drying room, with a view to eliminating any minor defects, e.g. too much warmth or too much moisture; pricks cheeses with a skewer if they contain too much air, cheese maker, butter maker; a cheese maker g.v. making "bondon" cheese, which requires special care to obtain exact degree of ripeness required.

cheese maker, lactate; introduces rennet and a lactate ferment or "starter," and salt into vat of milk previously strained and pasteurised; when curd has solidified, places it on cheese cloth for whey to drain off; sets in operation.

blending machine, in which curd and hard cheese, usually cheddar, in equal quantities and a proportion of butter are thoroughly mixed between rollers, to form bricé cheese; moulds cheese in power-driven moulding press, wraps it in paper and packs it for sale.

cheese maker, soft, as for cheese maker, lactate.

chocolate maker, see coucheur.

chocolate maker; (i) general term for any skilled worker employed in manufacture of chocolate paste, including chocolate grinder, melanger attendant, refiner, roasting hand, chocolate mixer attendant g.v.; (ii) in small firms, a chocolate maker throughout, i.e. combines duties of chocolate grinder, chocolate mixer attendant, melanger attendant, refiner (chocolate) g.v. but attends fewer machines than when work is sectionalised.

chocolate man, see coucheur.

chocolate mixer attendant; weighs, according to recipe, ingredients for chocolate paste and empties into three or four mixing machines, which, by revolving blades, makes chocolate dough; starts and stops or reverses beaters, turning pulley wheel governing reversible clutch; scoops out mixed paste, when it is of correct consistency, and empties it into bowl of conching machine, which, by a rubbing action, continues mixing and drawing off excess of chocolate; opens door of machine and allows conched chocolate to flow into trays; in small firms, sometimes also

does other work, e.g. attends a chocolate grinding machine (see grinder, chocolate) or does work of chocolate maker *q.v.*

churn attendant (margarine): runs specified quantities of fatty constituents from melter tanks (*cf.* tilters) into stirrer tanks; starts up stirrers by engaging pulley levers; turns on steam to heat fatty constituents for mixing with milk; runs off heated oil, etc., into emulsifier; is responsible for quantities of milk, coloring, etc., flowing into emulsifiers and gives instructions accordingly to churner (449) *q.v.*; in smaller firms, work is usually done by churner, supervisory duties being undertaken by works manager.

churner, churnman (margarine): under direction of churn attendant *q.v.* churns together prepared milk and fat in a steam-jacketed churn or emulsifier; watches process, taking care that milk and fat come together at correct temperature and obtain a certain constituency; opens valve to run in heated fat and also cooled milk, *cf.* milk, into churn; starts up stirrers in emulsifier by pulley levers, handles, etc., and controls heat by means of steam valves; adds cooling matter, if necessary; when using turbo-pump emulsifiers adjusts valves so that liquid flows at correct heat to receiving cooling drum when process is complete, opens outlet valve, allowing margarine to flow to outflow basin attendant (449) *q.v.*; in smaller firms, sometimes also does work of churn attendant *q.v.*

cleanser, fish, see gutter, fish.

cleanser, gut, gut scraper, rug dresser, rug wash, rug scraper, rug put, washes, in open trough, outside of gut; turns gut inside out by turning back the end of gut and running water through "turn-up" continuously so that weight of water pulls gut completely inside out and carries away lower impurities; times the inner surface of gut using a sliver, i.e. a wooden tool, to remove mucous matter and membrane; wads gut in a hand-turned metre wheel, sorts in lots, and packs with salt into casks if scoring gut into widths, places end of gut over tap nozzle, passes water into gut and confines water within a certain length of gut by squeezing gut at a certain distance from nozzle, measures hole of gut against a gauge and washes along a length of gut until a certain gauge is reached, then cuts; (sheep and pig gut) soaks gut until the mucous lining is "on the run," then, spreading gut on an inclined board, works down the gut with a wooden scraper so that mucous matter and membrane runs from the gut; (weasand and bladder) cuts and scrapes flesh, etc., from weasands and bladders and blows up, by hand bellows or with compressed air, to dry.

cleanser, mustard seed, see dresser, mustard.

cleanser, sausage casings; sausage skin cleaner; sausage case stripper, sausage casings dresser, sausage skin dresser, sausage skin maker; a gut cleaner *q.v.* working exclusively on gut casings for sausages.

cleanser, tongue; a kitchen hand (provision factory) *q.v.* who washes and scrapes out tongues in preparation for boiling.

cleanser, trips; trips dresser; (i) soaks trips in hot water; scrapes off outer skin, boils for three hours, and scrapes off inner skin; (ii) operates a belt-driven circular machine brush which cleanses trips in a stream of cold water.

concher (chocolate): chocolate hand, chocolate wiper; pours or ladles charge of chocolate, either powdered or liquid, into a concher machine (so called because originally it contained shell-shaped appliances, or "conches," which dug into chocolate and worked it to keep it plastic;

working is now sometimes done by rollers), sets machine in motion by a lever; watches temperature indicator to ensure that correct temperature is maintained; removes charge, with a ladle or other instrument, when refining process is complete; cleans machine, and looks after it generally.

converter (milk): condensed milk maker; prepares milk under vacuum (condensed milk); runs milk, after heating, into evaporating pans of condenser; watches evaporation and regulates heat of steam coils to prevent milk burning, regulates vacuum pressure to govern evaporation; draws off sample and, when process is complete, strikes vacuum, i.e., shuts off steam, lets in air and runs off milk to cool.

confectioner's assistant; does decorative coloured designs on high-class sweetmeats by hand, with brush; *cf.* confectioner's assistant (449).

converter men; (i) (acid glucose) acting in conjunction with steepers *q.v.*, opens and shuts connecting valves, as necessary, to draw liquor from heating vats and to force it up to neutralizing tanks; (ii) (liquid glucose) attends converter plant in which, by the addition of acid, starch solution is converted into liquid glucose; admits and shuts off steam, as necessary, to operate pump forcing starch solution into converter; regulates valves to run in acid; guided by gauges, regulates steam pressure on to converter; draws off sample of glucose from time to time; tests with standard solutions, and when process is complete, opens valve and forces out liquid glucose; keeps a record showing amount of liquor converted.

cooker, lemon; puts halved lemons in steamed vats, heat of which is regulated by means of valves; judges when process is complete and empties vats.

cooker, orange; puts juice and pulp of oranges, after they have been freed from pipe, etc., by rubber-downs (449) *q.v.*, in steam-heated tank and regulates temperature by means of valves; leaves it in tank for length of time varying according as fruit is to be stored as pulp or is to be used immediately in making marmalade; for storing pulp, fills tank with pulp, bammers in bung, and nails a strip of tin or zinc thereto; weighs cask before and after filling, and chalks up weight.

cook (preserved foods); directs processes for canning preserved goods, etc., on a large scale; examines meat on receipt, supervises cleaning and cutting up, has charge of steam vats, and generally supervises women assistants.

cream maker, clotted; solidated cream maker; prepares raw cream for heating in pans; during heating, skims off clotted cream.

mustard powder maker; weighs ingredients according to formula, and stipples them, by hand, into a chute, situated above a hopper or turning machine; moves shaft, which sets machine in motion, watches machine to see that it is working properly and that ingredients are being correctly mixed.

cutler (Jewish), see slaughterer, Jewish.

cutler, bacon, see butcher (preserved meat and bacon factory).

dairymaid (in creamery); pours cream into pots; wrings and packs up cream cheeses; weighs moulds, assists in making up, weighing, stamping, and moulding pots of butter, cleans pots, pans, etc.; washes shalves and marble slabs, etc.

dairymen (margarine factory); removes cream from milk, by hand, with a ladle or other utensil, and puts cream in a separate can for removal; empties milk, after cream has been removed, into steam-jacketed churns, to pasteurise milk; adds water, by hand, when milk is

at a certain temperature; opens valve by hand, causing pasteurised milk to be pumped to another department; works under supervision of foreman dairymen (451) *q.v.*

dairymen (milk factory); receives milk in churns at factory, and tips milk into reservoirs from which it is pumped to various machines for separating, pasteurising, condensing, etc.; cleanses reservoirs, etc., periodically; is generally responsible for good condition of milk accepted at receiving depots.

dresser, bladder; weasand dresser; removes fat and superfluous tissue from bladder or weasand with a knife, taking care not to cut it; encloses one end of it with a piece of string; places it on nozzle of electric pump, regulated by hand lever, which fills it with air, or blows it up with hand bellows; ties another piece of string round open end to prevent its escaping, ties a number of bladders or weasands together with string, and places them on hooks in roof or ceiling to dry.

dresser, fowl; fowl dresser; poultry dresser, poultry and cleaner, fowl dresser; poultry; removes viscera, washes and shavers poultry, and ties them up for market.

dresser, game, or for dresser, fowl dresser, meat; slays and shaves beasts; removes internal organs with sharp knife; eviscerates (if of an ox) down middle; washes down meat; work usually done by slaughterman *q.v.*

dresser, mustard; weasand dresser, mustard seed maker; (i) mustard seed cleaner, mustard seed dresser, seed dresser (mustard); attends three or four machines for sieving mustard seeds; pours seed into sieve, clears impurities from sieve, and bags dressed seeds; starts and stops machine, as necessary, by loose pulley lever; machine is rarely stopped; (ii) mustard flour dresser; attends three or four mustard flour sifting machines, fed from chutes, controlled by mustard blenders *q.v.*, after passing through heating machines; bags sifted flour; fills and nails up casks or boxes for despatch; clears sleeves of impurities by hand, using brush; occasionally, e.g. to change sieves, stops machines by pulley lever; (iii) receives blended flour in sacks; by fill mortars, starts and stops automatically - driven pestles by inserting or taking out pestle plugs; rubs flour in fingers to test it and to assist breaking up; fills open sleeves by hand scoop and starts machine; cleans sleeves of pailley, clears sleeves and bags flour.

dresser, mustard seed, see dresser, mustard.

dresser, meat's foot; washes feet of carcasses; boils feet for six hours in copper; picks off hair by hand; boils feet again in water, after which they are ready for sale; skims off oil (sold as meat's foot oil) which comes to surface during boiling process.

dresser, offal; removes offal of animals from slaughter house; boils it to extract dirt, blood, etc., and trims intestines, etc., in preparation for making catgut.

dresser, poultry, see dresser, fowl.

dresser, pug, see cleaner, gut.

dresser, sausage casings; sausage skin dresser, see cleanser, sausage casings.

dresser, seed (mustard), see dresser, mustard.

dresser, sheep's trotter, see for dresser, snail's foot.

dresser, trips, see cleanser, trips.

dresser, trotter, see for dresser, snail's foot.

dresser, weasand, see dresser, bladder.

drier, mustard seed, see kiln man, mustard.

evaporator man (liquid glucose); (i) attends simple vacuum pan or an evaporator pan to reduce clarified liquid glucose to required density by evaporating some of the water in

glucose liquor under a vacuum, opens valve to run in liquor, similarly admits steam and water to create vacuum; consults gauges, showing water and steam pressure, to regulate vacuum; draws samples of liquor and tests density with specific gravity tubes, when desired density is obtained, lets in air to break vacuum and runs off liquor; (ii) attends multiple evaporator, i.e., two, three or four evaporators linked in series to economize on steam utilized; operations as above; sometimes specifically designated, e.g., multiple evaporator man.

evaporator, steep water (glucose); as for evaporator man, evaporating steep water (see steeper) to a certain density for use in recovering by-products; involves extra cleaning duties, as maize water is apt to run up and down the down-leg of the multiple evaporators.

filler, pudding (preserved meats); fills skin casings, by hand, through a funnel, with gravely mixed ingredients of blood and spices; tucks them into lengths ready for boiling; or fills by machine, placing end of casing over outlet flange and working machine by hand, foot treadle, etc.; work usually done by black pudding maker q.v.

filler, sausage; places minced sausage meat in a cylinder fitted with a piston, worked by treadle, hand or by hydraulic or pneumatic pressure, which forces minor through a spout into sausage skins fitted on end and spout and regulates supply of mince into casings ready for weigher (sausages) q.v.

filer, fish; removes bones from fish which have previously been gutted and cuts them into strips, in preparation for curing.

filter man (sugar refining); takes charge of process of bag filtering of sugar liquor after it leaves blow-pan, i.e. large iron tank in which raw sugar is melted in order to extract filter press man (449) q.v. as to speeding and retarding flow of liquor, cleaning of filter bags, etc., and receives complaints from him as to state of liquor, etc.; takes samples and so watches state of liquor running through.

foreman (sugar house), see leading hand (sugar house).

fruit pudding maker; mixes, in specified proportions, currants, raisins, sugar, etc., for puddings; fills bags or basins of specified weight or size, with mixture, and bakes until cooked.

gipper, fish gipper, see gutter, fish.

glucose maker; general term covering all workers engaged in making solids or liquid glucose, including evaporator man, liquor man, pan man, steeper, separator man, filter-out (solid glucose) (449) q.v.

golden syrup maker, golden vat-man, golda maker (sugar); (i) makes golden syrup from refined sugar by inversion process; for operations, see inversion man; (ii) measures off standard strength acid and pours or runs it through a valve into centrifugal machine, and allows it to react upon sugar residue in machine, judging when this part of process is complete, and, opening valves, runs off solution through filter presses and clarifiers; finally boils product in a vacuum pan, thus obtaining a refined treacle; operations as for evaporator man.

granulator man (sugar refining), see superintendent of granulators.

grinder, cocoa, see miller (dried milk cocoa).

grinder, chocolate; chocolate powder grinder is engaged entirely on a number of chocolate grinding machines, e.g. ten, which by the action of pair of mill stones, revolving in reverse directions, one being steam heated, reduces winnowed and kibbled beans to chocolate paste (or bulk) of uniform consistency; adjusts, by screw device, a scraper on

edge of bottom millstone so that paste flows into a tray below; blade; removes flint tray once a day, switches on steam for heating millstone and starts up machine by pulley lever; also fills machine hopper when this is not done by nibber q.v.; is smaller firm, work usually done by chocolate maker q.v.

grinder, cocoa; cocoa mill grinder, as for grinder, chocolate.

grinder, mustard; mustard miller, roller man (mustard); attends three or four grinding machines; shoots mustard seed, by hand, from sacks into hoppers of machines; occasionally inspects to ensure that there are no stoppages of machines; but these hoppers are kept supplied; on rare occasions, adjusts grinding rollers by hand, wheel, or other device, or stops machine by disengaging loose pulley (by lever) and clears stoppage by hand.

grinder, starch; empties starch crystals, by hand, into hopper of automatic disintegrator mill, which turns them to powder; watches machine to see that it is working correctly; watches working of rotary sieve into which starch powder runs automatically; cleans sieve periodically; bags and weighs finished product; watches eaters who obtain after leaving rotary sieve, attends two or three machines and reports faulty working to foreman or works manager.

gutter, fish; fish cleaner, fish gipper; removes bones and internal organs of fish and cleans it ready for salting, sometimes also salts fish; cf. cobbeer (437).

haggis maker; mixes oatmeal, minced wet, minced sheep's pluck, onions, and spices; fills sheep's bladders with mixture and boils them in water.

header, fish; knocker, nobber; removes head of fish with a knife, by hand, in preparation for splitting or canning; cf. fish gutter.

inversion man (sugar refinery); brewer's ascorbic acid; runs power into lead-lined steam-heated tanks; directs acid man (449) q.v. who adds standard strength acid; regulates steam valves to control speed and degree of heating, the success of the process depending upon judgment in heating; determines approximately state of sugar from its appearance, i.e. colour, clarity, density; sends samples of liquid to chemist who decides when inversion is complete.

jelly maker (calves' foot), calves' foot jelly maker; weighs ingredients, which he requisitions from store room, and places them, by hand, in a steam-jacketed pan; watches temperature indicator during boiling process, to ensure that correct heat is maintained; decides when ingredients have been sufficiently boiled, and opens a valve or tap to allow them, now in form of liquid jelly, to flow out into receptacles; strains jelly through a bag of fine muslin to clarify it and to exclude any solid ingredients which have not dissolved during boiling.

jelly maker (provision factories); general term covering jelly boiler, jelly pourer-out (449), and jelly cutter (449) q.v.; is most general, sometimes makes jellies throughout, combining work of all these workers. jelly maker (sugar jellies); weighs ingredients (principally sugar), according to a standard formula, or recipe, and empties them by hand down a chute into steam-jacketed pans; adds water, as required; when required, adds, by hand, gelatine, flavouring essences, and colouring matter; watches temperature indicator, or, more thermostat, when heated sufficiently, and have acquired proper consistency, pours them into

a large receptacle and thence transfers them by hand, with a ladle, to moulds; cf. sugar boiler (434).

jelly powder maker; weighs out in exact proportions, according to a recipe, ingredients for jelly powder, and mixes them by hand on a bench, is often employed interchangeably with other work, e.g., as custard powder maker q.v.

killer, see slaughterer.

killer, pig; pig butcher; stuns pig; holds body of pig by chain or rope attached to hind leg; cuts back the throat; allows blood to drain out; may cut pig's throat while carcass is held on ground or in wooden cradle; sometimes also does work of pig scalding and pig singer q.v.

kiln man (grain milling); (i) is in charge of one or more kilns, used for drying oats in preparation for milling and rolling, which are automatically fed with oats from cleaning machine through hoppers, and are heated by required steam; faner sees that hot air from faner is maintained, and, if grain is over-heated or under-heated, reports to boiler fireman (551) q.v., who increases or reduces temperature accordingly; directs kiln labourer (439) q.v., takes samples of grain from time to time and feels and tastes them to ascertain their condition; sometimes also acts in other capacities, e.g. as intake man, sile man, screener man (435) q.v.; (ii) is in charge of flat kiln used for drying damaged or wet grain; in small establishments, also stacks furnace and regulates heat of kiln; cf. boiler fireman (551); with assistance of labourers, spreads grain from his flat with shovels or floor of kiln, and turns it over from time to time during heating process; takes samples from time to time, and feels and tastes them to ascertain condition; when grain is dry, shovels it into bulk and is packed by warehouseman (940) q.v.

kiln man, mustard; seed kiln man (mustard); mustard seed drier; is in charge of kiln in which mustard seed is dried; regulates heat of kiln fire by building fire up or stamping it down, as required; turns seed over, with a long iron rod, so that it may be dried evenly, and none be either burnt or insufficiently heated.

kitchen hand (provision factory); performs one or more of the following operations: bottles liquid soap; dries vegetables, and essences for soup powders, by placing them in stores (usually steam-heated) and regulates temperature by means of valves; weighs ingredients, mixes them (dry), by hand, on a bench; puts them in a compressing machine and operates machine by moving a lever or switch; packs powders by hand, in cartons; also boils co-holds, tongues, etc., as directed, in making brown timps, etc.; cf. boiler or head; works under direction of foreman or chief of kitchen.

knobbar, see header, fish.

lard maker, lard refiner, lard render; melts flint, i.e. pig's fat, in an open steam-jacketed pan; transfers hot liquid into a tin fitted with spouts and taps; runs liquid lard into paper bags, cardboard moulds, bladders, or tins, and sets to cool.

leading hand (sugar house-sugar refining); foreman (sugar house); supervises other char house workers; is responsible for whole process of final clarification of liquid glucose by heating and skimming liquor in open tanks and by charcoal filtering, i.e. maintaining a very low temperature level of liquor in tanks, few of liquor through tanks and char filters, and through the final outlet pipe; also, by inspection, ensures that charcoal covers are evenly and fully working; effectively; regulates steam valves; inlet and outlet valves to tanks, etc.; skins scum from glucose liquor; takes samples in glass ladle and inspects the clarity to determine

rate of flow of liquor through char house; opens and shuts final outlet pipes to pass clarified liquor from char house to evaporator man *q.v.*
lemon cheese maker, lemon curd maker; receives ingredients, in correct proportions, from manager; in some firms, is himself responsible for measuring out ingredients in correct proportions; places them in a large copper steam-heated pan; adds water according to instructions; opens valve to allow steam to enter lower portion of copper pan; boils mixture, taking temperature frequently with a thermometer; stirs mixture with a spoon or other instrument, during boiling process; when mixture has boiled long enough, ladles mixture, by hand, out of pan, and pours it into vats to cool; usually works throughout under instructions of manager.

liquorice hand, liquorice raffia; places prescribed quantity of block liquorice in a steam-jacketed pan, and turns on steam to heat it; sets in motion mechanical stirrer; watches liquorice, judges when correct consistency has been reached and adds measured quantity of flavouring essence; adds oil; boils liquorice into open paste to cool; is usually employed part-time in breaking up and stacking block liquorice, or in trolleying liquorice, etc.

liquor man (glucose); attends a number, e.g. six, of filters and regulates flow of glucose liquor through filter plate, *cf.* filter pan hand (449); regulates main inlet and outlet valves and also the small valves attached to each filter plate (20) or to each filter) and so controls filtering.

liquor man, liquor tank attendant; tank attendant, tank man (sugar re-fering); operates valves controlling flow of liquor from char chisterns; or superintends opening and closing of valves used for filling and emptying liquor tanks attached to sugar boiler (434) *q.v.* draws from tanks in correct rotation; observes colour of liquor as it flows from char chisterns, and tests it for density; controls, by means of valves, supply of water for washing off tartronic chisterns when empty of liquor; checks times of stages in process; notes numbers of chisterns to be drawn and re-charged with charcoal.

macaroni maker; weighs out, in correct proportions, ingredients, which differ according to type or quality of macaroni required; mixes them with water by hand, in a bowl with a spoon or other instrument, or puts them in a mixing machine; to be mixed mechanically; sometimes, after mixing, puts paste on table of grinding machine, which consists of a revolving circular metal table, fitted with two grooved conical rollers fitted with teeth or table to which a revolving table in motion, causing paste to pass repeatedly under rollers and to be worked up to an even consistency; in other cases, adds correct proportion of water, by hand, and works paste up by hand; or, sometimes, by hand in mixing bowl; transfers paste, by hand, to another machine fitted with a press, which forces paste through holes, in bottom of machine, in form of long pipes; breaks off pipes into convenient lengths, puts them on a tray, and carries them to drying chamber; sometimes passes macaroni through a hand roller before drying, which presses it into strips resembling flat ribbon; examines macaroni from time to time in drying chamber, and decides when it is ready for sale; in large factories, is assisted by labourers, who do unskilled parts of operations.

macerator, starch; starch roll man; attends macerating machine, in which rice or other paste, which has been ground by starch grinder *q.v.*, is mixed with water and kept in motion by compressed air or other

means, regulates, by hopper slide, flow of paste into machine, and runs in water to fill machine, starts and stops machine by means of pulley lever; when operation is complete, allows mixture to settle; opens outlet valve and runs off starch liquor; repeats process several times.

mustard hand (mustard); general terms for any worker operating and controlling machines used in mustard manufacture, e.g. mustard blender, mustard dresser, mustard grinder *q.v.*

machine man, butcher's machine man; attends chopping and mixing machines for brawn, black pudding, sausage, etc., making, working from recipe, expatriate provided quantities of fat, beef, bread, flour, etc., according to commodity to be made, into chopping or mixing machine, in correct order; controls machine by hand, decides when operation is complete and scrapes paste from edges; repeats process in "fine" mangleur machine; in smaller firms, work is usually done by chocolate maker *q.v.*

milk sugar maker; as for evaporator man; watches and controls special plant, which extracts sugar from milk, from which casein and cream have already been removed, by evaporation under reduced pressure; draws lactose or milk sugar by hydro-extractor.
mill (cane); cane grinder, cane worker; empties sacks of cane down a chute, which feeds hopper of grinding machine; places sacks in position to receive cane powder as it issues from machine; judges when machine is running but (which would injure product); decides when grinding process is complete, and powder is in a fit condition to be stored.

mill, mustard, see grinder, mustard.
mince-meat maker; weighs out ingredients, i.e. meat, raisins, etc., in exact proportions according to a formula; and either feeds and operates machines, e.g. meat chopping, fruit cleaning, fruit mincing, mixing or directs and superintends labourers who feed and operate these machines.
miner, sausage meat; a machine man *q.v.* who feeds mincing machine, by hand, with meat or pork, less or more, and other ingredients; turns crank of machine, if hand-operated, or sets machine in motion, if power-driven; removes minced and mixed ingredients from bowl into which they issue from machine; sometimes also does work of sausage filler *q.v.*

mince, chocolate, see chocolate maker.
mixer man, magma; mangleur; mixer man; controls, by means of valves, flow of raw sugar, water, or syrup into crystalliser, to obtain correct mixture and density; guided by gauges showing state of working of crystalliser, etc., uses judgment in varying the flow by cutting off or adding sugar, water or syrup.

mixer, mustard flour, see blender, mustard.
mixer (potted meats, fish paste, etc.); weighs ingredients, according to a formula or recipe; puts them, by hand, in a large bowl fitted with wheels; this bowl, with its contents is called a "batch" or "probe" batch upon mixing machine, fitted with blades which cut up and mix ingredients; sets machine in motion; watches to see that ingredients are well mixed; pushes batch aside

to be taken away to filling room, and puts another batch under mixing machine.

mixer, tea, see blender, tea.

mohler, see loader, fish.

opener and dresser, pig; hangs up carcass of pig, after it has been scalded and singed, by hind legs; cuts down centre of underside; removes offal and dresser carcass, which is then removed to hanging room.

paddler, starch paddler; with other paddlers, paddles starch on the starch rate, i.e. walks up and down a number of long, narrow, approximately 100 feet in length, along which starch liquor flows in shallow streams, and by means of a paddle, prevents the light glutinous water settling with the starch on the starch rate; continues paddling until all glutinous liquor runs off and only starch remains on the starch rate; regulates flow of liquor on the starch rate.

pan hand, pan man (sugar refining), see boiler, sugar.

pan man (condensed milk factory), see condenser (milk).

pan man (solid glucose); attends vacuum pan in which glucose liquor is heated under a vacuum and reduced to required density; admits steam to steam coil, and watches gauges, regulates temperature, from time to time drawing off samples of liquor as a guide; shuts off steam and opens valves to run off liquor to filter-out (449) *q.v.* upon completion of process, *cf.* evaporator man (liquid glucose).

pan man, vacuum (cereal foods); attends vacuum pass in which cereals, used in preparation of cereal foods, are crushed; *cf.* pan man (solid glucose), evaporator man.
pan man, vacuum (sugar), see boiler, sugar.

pasteuriser, milk; regulates, by opening or shutting a cock valve, flow of milk through a machine which cleans or clarifies it, into a steam-jacketed pasteurising machine, where it is heated to a given temperature, to destroy bacteria; in some factories, regulating supply of steam to pasteurising machine, by opening or shutting a valve, using a temperature indicator to show when correct temperature has been reached; where temperature is regulated automatically, by regulating, by opening or shutting another cock or valve, supply of hot, pasteurised milk to heating or retarding tanks; when one of these tanks is full, opens a cock or valve which allows milk to flow out of tank over cooler; sees that pasteurising machine is working properly.

pickler, beef; pork (pieces of beef, tongues, or some piece of brawn, sausage, etc.); in strong solution of brine, in tanks, or more usually, in pickling tanks; opens valves to fill tanks with brine and adds pick; inspects tanks from time to time and removes meat when it is sufficiently salted, taking into consideration temperature of meat, whether more brine in given time in hot weather; empties and cleans tanks; may also do other work, e.g. attend retorts, *cf.* retort hand.

pickler, sprat; prepares the pickle, i.e. sugar, sprat, bay leaves, etc., in barrels for sprats and herrings, working from own recipe; often travels round coast to follow "catch."

plunger (meat preserver); fills tin with meat, by hand, places bone or stick at tin, presses down meat; removes board, and fills in crevices with small pieces of meat, by hand.
plunging machine (meat preserver); attends a stuffing machine in a "centre" or "packed" meat factory. (i) (multiple machine) places tin beneath automatically meat-filled bopper and after they have been filled with meat by means of an automatic plunger, removes tin from beneath bopper; (ii) (single machine)

fills hopper with meat, places empty tin beneath hopper and pulls lever to operate plunger; removes filled tin, replacing with an empty one.

preparer, pressed fruit; picks over specially selected fruit in preparation for candying; removes stalks, etc., and rejects any fruit that is defective; cuts open with sharp knife and removes stone.

preserved milk maker, *see* condenser (milk).

preserver, fruit; fruit and vegetable preserver; fruit canner, fruit tanner; picks over fruit, vegetables, etc., discarding any that are defective, removing stalks, seeds, etc., if necessary, skins, peel, etc.; fills bottles, tins, or other vessels with fruit, vegetables, etc., thus prepared, with or without addition of syrup or other preservatives; boils, or partially boils, these vessels with their contents, if boiling is required, and makes vessels air-tight with a seal or cap.

preserver, meat; is in charge of all processes in preserving and sterilizing of meat, knows temperatures and times governing charring and smoking of roasts, superintends filling and sealing of tins; directs particular preserving processes, e.g., for large tins of meat, may decide upon a second heating in retort (after first salting), opening up and resealing of this finally to exclude air; directs spraying of tins with cold water to cool tin after heating and salting. keeps log book of times, temperatures of roasts, and consignments passed through.

preserver, potato, *see* preserver, vegetable.

preserver, sardine; preserves sardines, either by partly frying them before they are packed, or by leaving them in steam retorts after they are packed; also directs and supervises workers engaged in packing sardines, i.e., in putting them in tins, filling tins with oil, and soldering them.

preserver, vegetable; (1) as for preserver, fruit; (2) washes and sorts turnips, onions, cabbages, potatoes, or other vegetables; slices them by machine; dries slices on trays, in a gas-heated drying oven; packs vegetables, when they are dry.

presser, cocoa, *see* pressman, cocoa.

presser, mustard husk oil, *see* for pressman (cattle cake).

pressman (cattle cake); attends, with another pressman, two presses for extracting oil from maize husks, bean, etc., and pressing residual husk into cattle cakes; regulates flow of husk liquor into presses by valves; while one press is filtering, stops flow of liquor through other press, from plate to plate, pulls by hand the calked huck, etc., therefrom; husk falls through hopper to conveyor feeding drying cylinders, cf. driverman (449); changes and washes filter cloths, cf. filter pan hand (glucose) (449).

pressman, cocoa; cocoa presser. Hydraulic press operator (cocoa); attends machine for pressing out cocoa butter from cocoa liquor and for pressing residual cocoa into hard "cheeses" or blocks; pours liquor into steel pots in machine; fastens lids on pots and starts up pump, or opens a hydraulic valve to operate a ram which presses up bottoms of the pots in the compressing of cocoa liquor; removes pressure blocks and pot containing the cocoa butter; exercises great care in starting up machine.

press man, Sweetland; attends a sifter, e.g., those of Sweetland filter presses, in which neutralized liquid glucose passes through cloth bags attached to filter plates, regulates, by valves, flow of liquor through machine; from time to time draws off samples of liquor to determine the state of filter bag; when necessary empties and opens press, unscrews filter bags, washes them and dries

them on hot pipes; sometimes also does work of liquor man or filter pan hand (449) g.v. when liquor flows from Sweetland press through other type of press for additional filtering; press operator, hydraulic (cocoa), *see* pressman, cocoa.

pulper, fruit; puts fruit (other than oranges), after it has been cleaned by fruit picker (449) g.v., in steam-heated tank, and regulates temperature by means of valves; when fruit is reduced to pulp, fills casks with pump, hammers in bung, and nails thereover a strip of zinc or tin; weighs casks before and after filling, *see* choice up weight.

raw sugar man (sugar refining); (i) general term for any man employed in raw sugar department, including blow-up man g.v. and labourers engaged in trucking, etc., raw sugar, or standing belt carrier, cf. mixer boy (sugar refining) (449); (ii) prepares juice, i.e., raw sugar in water, for refiner, adding weighed or measured quantity of lime to juice in defecating pan; mixes with mechanical stirrer to neutralize acidity and to combine with albumen to create flocculent precipitates, which carry away impurities; watches mixing and stops machine when process is complete. refiner, refiner hand, refiner man (chocolate); refining machine attendant; attends from six to ten chocolate refining machines, which by means of finely adjusted cold steel rollers, still further reduce the fineness; starts and stops machines by loose pulley levers, if necessary, adjusts clearance of rollers by hand wheels governing screw device; adjusts magnets (for removing stray pieces of metal in paste) in magnet board of each machine; clears delivery trays with hand scoop; in small firm, work is usually done by chocolate maker g.v.

refiner, meat; receives crude meat from cattle market, cuts away meat, skin, etc., and places in melting tank; machine; adjusts temperature by regulating valves of steam jacket and runs out refined meat fat to cool.

refining machine attendant (chocolate), *see* refiner (chocolate).

rennet maker; steeps, macerates, and cleanses in water, a portion of fourth stomach of calves; free it from outer skin, fat and useless membranes, washes it in brine or rubs with dry salt and finally dries it till it resembles parchment; makes up steeping liquor and immerses wells (dried calves' stomachs) to extract ferment; superintends filtering, bottling and packing of rennet.

reaster, cocoa; cocoa bean reaster; puts cocoa beans in revolving heated iron drums; watches roasting, and removes beans when process is complete; stokes fire beneath cylinder or, more usually, regulates gas valve for control heating; tests beans by breaking in his fingers to ensure by their brittleness that they are thoroughly roasted; opens cylinder door and allows beans to fall into receptacle, where cooled air is drawn through beans by means of a fan; may attend to two or three cylinders; may also roast coffee beans by the same method.

reaster, coffee; *see* for reaster, cocoa; sometimes also reaster, chocolate, *see* reaster, chocolate (449).

reaster, oat; a kiln man g.v. who supervises working of kilns in which oats are dried in preparation for hulling and roasting.

reaster, bacon; sets or ties bacon, which has been previously boned, into rolls by hand, either before or after curing.

roller (chocolate), *see* for concher (chocolate) working at roller machine.

rosterman (mustard), *see* grinder, mustard.

rop man, *see* cleaner, gut.

runkeeper, ruman (cereal frodd); asperries paddlers, shovellers (449) g.v. and other labourers and superintends processes by which grain is steeped in water, ground, and passed through long "runs" where starch is deposited.

sampler, cocoa; visits docks and examines consignments on behalf of cocoa merchants (inspects state of cocoa, takes representative samples from certain sacks, exercising special care to estimate as near as possible percentage damaged, e.g. through dampness).

sawage case maker, *see* cleaner, sawage casing.

sawage maker; general term for any worker engaged in making sawages, including boner, machine man, sawage filer, weigher (sawages) g.v. sawage skin maker, *see* cleaner, sawage casing.

scales, pig; receives carcasses from pig killer g.v.; immerses it, by hand or by overhead gear, in tub of boiling water, removes carcass from water, and scrapes off skin.

scraper, gut; rep scraper, *see* cleaner, gut.

sealer (dressed meat market); a priest or layman, appointed by Jewish Board of Shechets, who ensures that slaughtering has been performed in accordance with Jewish customs; supervises slaughtering and affixes seal to Kosher meat.

seedman, mustard; is in charge of store of mustard seed, directs purchase and labourers in receipt and sowing of consignments of seed, and, from experience is able to judge quality of seed; rejects seed, or reports when seed is not up to sample; according to quality of seed, directs trucking to different floors of mill for banding, sifting, etc.; keeps stock book.

selector, casing; gut selector; determines full size of guts, i.e. intestines removed from carcasses of oxen, sheep or pigs, by filling them with water; cuts gut into lengths suitable for sausage skins, etc.; usually done by gut cleaner g.v.

self-raising flour maker; (i) is in charge of a number of automatic mixing machines, working in series; sets measures of machines, so as to admit correct proportions of each ingredient, i.e. wheat flour, carbonate of soda, cream of tartar, and tartaric acid, sometimes also rice or maize flour; watches raising of machines and from time to time oils and cleans machinery; (ii) in bakeries or small works, powders and sifts ingredients; weighs them out by hand, and puts them, by hand, in mixing machine; starts and stops machine by moving a lever.

separator man; attends four vats which feed eight shakers for separating the husk from the germ of milled maize; regulates, by valves, flow of maize and starch liquor pumped into vats and sees that husk does not sink to the bottom at the back (entrance) of tank by stirring liquor with a shaped rod from time to time; attends and watches shakers (which are of copper) cf. shaker man.

shaker man; attends a number of shaking machines (e.g. twelve) which, by means of oscillating sick, draw, separate husk from fine starch; regulates, by valves, water spray over shakers; twice a day stops husk feed over each machine, removes washers and reds each sieve, throwing off belts to rimp machine.

shechets, *see* slaughterer, Jewish.

sheller, shrimp; removes boiled shrimps from their shells, in preparation for potting.

shocket, *see* slaughterer, Jewish.

sieve man, mustard, *see* dresser, mustard.

siever, cocoa, *see* sifter, chocolate.

sifter, chocolate; chocolate powder sifter, cocoa sifter; cocoa sifter; keeps replenished, the hopper of a machine which sieves cocoa or beverage chocolate powder by means of oscillating silk sieves; sieves sieves with hand brush; sieves sieves powder from delivery tray; starts up and stops machine by pulley lever; cf. cocoa dresser.

sifter, mustard; mustard flour sifter, see dresser, mustard.

singer, pig; receives carcass from pig killer g.v.; attaches it to overhead gear, and passes it into and under a special oven; removes it from oven, rubs off charred hair, and washes and scrapes skin to remove any remaining bristles.

slaughterer (not home); butcher, slaughterer; kills animals for human consumption, usually by post-mortem; kills and by cutting throats of sheep and pigs; sometimes skins animals before killing them; often also performs duties of meat dresser g.v.

slaughterer, Jewish; chicken butcher, cutter, shechter, shochet; slaughters animals, and examines carcasses according to Jewish ritual; is employed by Jewish Board of Health.

slaughterman, see slaughterer.

small goods maker; undertakes any kitchen work in connection with sausage and cooked or preserved meat trade; makes sausages, hams, prepares and cooks tongues, processes bristles of beef; sometimes also tins meat, seals tins and passes them through retorts; cf. machine man, black pudding maker, brown maker.

soup maker, liquid; a highly skilled cook g.v. who prepares liquid soups from meat, vegetables, seasoning, etc., which he mixes in exact proportions.

soup maker (soup powder); a kitchen hand g.v. who weighs out ingredients of soup powders in prescribed proportions according to a recipe, and mixes them (dry) by hand on a bench; drags them off in a store.

splitter, bean, as for splitter, pea.

splitter, fish; splits open fish, after heads have been removed, in preparation for curing.

splitter, haddock, as for splitter, fish.

splitter, pea; feeds hopper of splitting machine with peas from a cask, where this is not done by labourer; sets millions of machines at correct distance apart, by turning a screw device, so that peas are split to required size, and are not ground or smashed; starts and stops machine by moving a lever; bags split peas as they emerge from delivery chute of machine.

starch maker; general term for a worker employed in any process in manufacture of starch, e.g. starch macester, starch gringer, starch stove attendant g.v.

steamer (rolled oats); sets automatic feed measure, governing flow of groats (rolled oats) to heated revolving cylinders; starts and stops machine by means of a lever; takes samples from time to time, to judge progress of steaming process; removes groats when process is complete.

steep, steep man; (i) (solid glucose) empties sacks of starch flour into steeping vats; turns on steam and water and acid, regulating inlet valve, as necessary; acting in conjunction with converter man g.v., opens outlet valves of vats; (ii) (liquid glucose) attends twelve vats in which maize is steeped to soften for grinding; opens and shuts hopper slide and runs in maize; runs water into vats, using marked stick to determine when required quantities have been run in; turns on steam and maintains a given temperature; runs off softened maize and liquor from vats in rotation; regulates speed of filling and emptying and regulates temperature, according to

speed of grinding, under works manager's instructions; keeps vats clean and ensures that they do not overflow.

starcher, milk; places bottle (or other vessel) of milk in a steam-jacketed receptacle; heats milk to required temperature, and watches temperature indicator to ensure that correct heat is maintained; if necessary, regulates heat, by opening or shutting valve which admits steam; hermetically seals bottles when still in steaming cylinder, by hand, by inserting a cardboard disc; removes bottles from copper to cool.

stove attendant, starch; attends stove in which is dried, powdered starch or thick starch to form starch crystals; puts in and takes out, as necessary, block starch or powdered starch on trays; regulates the heat of oven in which starch pulp is heated for evaporation of moisture, by stoking oven fires, opening and shutting hot air doors, turning on and off dry steam valves, etc., according to method of heating oven employed.

superintendent of granulators; granulator man (sugar refining); superintends process, and regulates, by valves, rate of flow of crystals from centrifugal machine through granulators and also temperature of granulators; is guided mainly by chart, or other indicator showing rate of flow, and thermometer.

tank attendant, tank man (sugar refining); see liquor man.

tester (margarine); tastes soy and fat ingredients of margarine to ensure freshness, at various stages of manufacture; usually in control of melting room; in small works, may do work of melter (449) g.v.

tester, milk; in large factories, measures out quantity of milk; adds specified quantity of methyl-alcohol, sulphuric acid, or other heating and colouring agents and pours solution in cylindrical machine; starts cylindrical machine by turning handle, or if power-driven, engages driving belt; after three or four minutes, pours off the separated cream and residue milk in graduated flasks and records fat contained; in small factories, work is usually done by works manager.

tuner, fruit, see preserver, fruit.

trusser, fowl, see dresser, fowl.

vatman, starch, see macester, starch.

449.—OTHER WORKERS.

acid man, acid pot man (sugar refining); pours standard strength sulphuric or phosphoric acid from carboys into open wooden or lead-lined water tank; directs flow of inversion man (448) g.v.

assistant (char house-sugar refining); assists leading hand (char house) (448) g.v.; stands by tanks and skims cream from glucose liquor; takes samples and reports to leading hand as to whether that liquor is badly filtered, etc., and watches to see that liquor in tanks does not overflow; runs water into, and out of cleaning tanks through the char filters for charcoal washing.

soaked oatman; oatman assistant (433) g.v. by plucking and removing heads, cakes, husks, etc., in and from fixed or rotary oven.

blancher, almond; immerses almonds (or other nuts) in hot water until skins are loosened; shakes in wire baskets to detach skins, and runs cold water through contents of baskets until skins are washed away.

blancher, ginger; (i) places ginger in revolving drums; sets drums in motion by moving a lever or switch; ignites sulphur beneath drums to bleach it; removes ginger from drums when process is complete; usually spends part time in other

work, e.g. in filling and emptying, or shifting barrels of ginger; (ii) fills tumbler with ginger; mixes liquid bleacher, according to recipe, and pours over ginger; closes tumbler and turns wheel which, by means of gears, causes tumbler to rotate; after specific interval turns up tumbler, allowing bleacher to drain from ginger, and shovels or tips out ginger, returning it in trays to drying room; then regulates temperature of drying room by steam, hot air, valves, etc.

bleaching tank attendant (margarine);Julier's earth attendant (margarine); attends to bleaching tanks, in which oils intended for manufacture of margarine are treated with fuller's earth to take away any impurity in colour, weighs or measures and adds bleaching agent to oil which flows into tanks from washing tanks; sees washing tank attendant; engages or disengages pulley to start or to stop strainers; runs off the solution to filter presses, see filter press attendant (margarine).

blender (cereal foods and starches), see mixer (cereal foods and starches).

blender, egg, see mixer, egg.

blender (margarine); (i) blender; tips materials into blending machine, by hand unless machine has an automatic feeding apparatus, and sees that machine which kneads salts, etc., into margarine, is working properly; (ii) attends mixing machine which, by means of a number of knives revolving at high speed, blends correct quantity of water, colouring matter, etc. required to produce product.

blender (meat preserving); opens, by hand, tins of meat weighing from 1 to 1 cwt., under supervision of assistant chemist; opens lid of vacuum or steam-heated pan and, with help of another labourer, tips contents of tins into pan; may also, under instruction, open a valve, allowing ingredients when mixed to flow to rate on next floor below for further treatment.

blender's assistant (margarine); assists blender (margarine) g.v. by filling and removing margarine from blending or mixing machine.

blow-up man's assistant; opens and closes valves of blow-up, i.e. sugar melting pan, under direction of blow-up man (448) g.v.; extrudes samples with dipper, for blow-up man to test.

bolter, bread; places split beans in bags, and boils them in a copper until they are soft.

bolter, biscuits; throws paste biscuits, of cracker type, into a cauldron where they are boiled, in preparation for baking; removes biscuits from cauldron with a net when they are cooked.

bolter, fruit (four confectionery); in large establishments, prepares and cleans fruit for tarts, etc., and boils and cooks.

bolter, sauce, see sauce maker.

bolter, spice; puts given quantity of spice into a steam-jacketed pan, in which it is boiled in vinegar; lodges it out, after boiling.

bottler, milk; fills glass bottles with milk, from top of churn, according to quantities ordered, seals, by pressing cardboard disc into mouth of bottle; adds label if required.

bottler, pickle; picks off salt, by means of a spoon, from a filling stick, bottles with salted and cut-up vegetables, etc., adding spiced vinegar, or vegetables which have previously been pickled in brine.

boxer, starch; fills boxes with starch paste intended for mauling into blocks.

box hand, box man (sugar refining); fills manual bogies with maize cufe (dense mass of sugar crystals mixed with mother liquor) from chute mouth, pushes bogies along rail and tips contents down chute hopper to centrifugal machines, where crystals are dried.

breaker, cake (cocoa), receives cakes of cocoa, measuring about 17 or 18 inches in diameter, and 8 to 4 inches in depth, from cocoa pressman (448) q.v. and throws them into hopper at mill, which contains two rollers, usually made of steel and fitted with teeth; moves lever to set mill in motion and opens valve to allow broken cocoa, in pieces about size of an apple, to be ejected mechanically.

breaker, cocoa bean, see nibber.

breaker, egg; in food preparing trades, breaks shells of eggs and empties contents into a vessel for whisking, if required, places white and yolk of eggs in separate vessels. **breaker, starch;** attends a number of breaking machines, e.g. s.s. used both before and after filtering, to break up starch and to mix it with water by means of mechanical stirrers; regulates, by slide, hopper feeds, and starts and stops stirrers by means of pulley levers; regulates valves controlling water flow into tanks and also regulates outlet valves; sometimes tips starch from starch shovellers q.v. (before filtering) into tube, in cases where shovellers are not used; work sometimes done by foreman as an incidental duty.

breaker-up, caramel; takes from cutting machine, sheets of caramel paste marked into cubes, and divides into separate cubes. **briner, peel;** fills vats with orange or lemon peel, which is allowed to steep therein for long periods; goes round continually from vat to vat, examining condition of peel and testing strength of liquor, and noting salt thereto from time to time, if required; judges when process is complete and empties vats.

briner vegetables; removes and examines fresh vegetables on arrival at works; cleans and cuts them up as required, and immerses in brine in tanks; q.v. vegetable preserver (448). **butter roller and printer;** forms rolls or pads of butter of specified weight, by hand, with wooden butter "hands"; imprints on top of pat. firm's characteristic design.

butter rolling and printing attendant, butter rolling machine attendant; operates and controls machine which moulds bulk of butter into rolls, bricks, or fancy shapes of specified weight, imprints or embosses firm's characteristic design thereon, and delivers butter ready for wrapping; duties also for mounting machine attendant (margarine). **butter worker's assistant;** assists butter maker (448) q.v. by filling churns with cream, removing plugs of churn to allow butter milk to escape, etc.; may also clean internally, sweep floor, etc.

candler, egg, see sorter, egg.

strutp maker, or for sauce maker.

choffman (colliery), see primary labourer (colliery).

charcoal house man (sugar refining); char end man, kiln charger (sugar refining), kiln charging man (sugar refining), a labourer who, at the sugar refinery, in the "arrival" charcoal house, wherein spent charcoal is re-charged to restore its power of absorbing colouring matters and other impurities from sugar; empties spent charcoal over kiln heads into charging kiln machines or trays, i.e. over heated pipes through which it passes automatically and emerges re-verified.

char elevator attendant, wet; see char man (sugar refining); (1) pushes hoggies loaded with wet char, i.e. charcoal, which has been used in filters, from filters to elevator; (2) shovels wet charcoal direct into head of elevator.

char end man; (1) see filler, char cistern; (2) see charcoal house man.

charger, centrifugal machine charger, see machine man.

charger, kiln (sugar refining), see charcoal house man.

charging man, centrifugal machine

charging man, see machine man.

charging man, kiln (sugar refining),

see charcoal house man.

char man, wet (sugar refining), see

char elevator attendant, wet.

checker (sweets), see weigher

(sweets).

cheese maker's assistant; stirs milk, if required, to prevent cream from setting on top; cleans and scales grinds and milk cards; works under supervision and instruction of cheesemaker (448) q.v. and assists him generally.

chipper, orange, see cutter, peel.

chop house boy, choppe girl, chop place hand; (Lancs. and N. England terms) a chaff cutter q.v. working in a colliery, cutting hay, etc. for pot houses.

chopper, sugar; sugar cutter; places slices of sugar in machine, which cuts sugar into cubes; starts and stops machine, as necessary, by loose pulley lever; empties or removes filled delivery tray, if endless conveyor is not used to convey out sugar.

churner's assistant, assists churner (448) q.v. by helping to empty churns, solidifying emulsion by spraying with cold water, except when it is cooled in drums, and removing solid margarine in trucks. **cleaner, cocoa bean, see picker** (cocoa and chocolate).

cleaner, currant, or for cleaner, fruit,

cleaner, fruit, fruit picker (in

factory); (1) spreads on a board or

on a tray, dried or fresh fruit to be

used in jam-making or preserving or

in making cakes, etc.; picks it over

by hand, removing damaged fruit or

stones, sticks, leaves, or other foreign

matter; washes fruit, if necessary, by

hand, and lays it in racks to dry.

(2) places fruit on grid or screen in

hopper of a shaking and sifting

or other machine, which removes

stalks, dust, or other foreign matter

by sifting, by motion (with a

mechanical fan) or by other device.

And also, if necessary, washes them;

starts and stops machine by moving

a lever and regulates supply of water

to machine, where process includes

washing; sometimes supplements

machine process by hand picking

and/or hand washing; is often em-

ployed part time on other work, e.g.

as lemon splitter or peel picker q.v.

cleaner, grain; passes sugar grain into

a bin; operates and controls

machinery for conveying grain, in a

revolving conveyor, through a tank

containing water until grain is

thoroughly cleansed. cf. grain

cleaner (432).

cleaner, kernel; washes outside of

kernel with hot alkaline solution,

petrol, or benzol, to remove

traces of palm oil.

cleaner, meat; meat washer; washes

and cleans meat, preparatory to

pickling; frequently done by beef

picker (448) q.v.

cleaner of raw beans (grain milling);

(1) attends machine for pumping

water over beans; regulates valves

controlling supply of water to

machine and regulates valves, slides

or other device controlling auto-

matic flow of beans through machine;

(2) adjusts, according to size, suc-

cess of oscillating sieves, in which

dirt or dust is removed from beans

by dry process; brushes sieves at

intervals to prevent clogging; starts

or stops machine by lever and regu-

lates supply of beans to machine.

cleanser, potato; (1) places potatoes in

rotary drum, whose inside surface is

rough, like a mangle roller; causes

drum to revolve, by hand or power,

in tank of water; (2) puts potatoes

in tank of water and scrubs them, by

hand, with a brush.

cleanser, rice; rice polisher; feeds

beans with rice, which passes there-

consisting of three parts, i.e. separat-

ing, polishing, and brushing, con-

ducted by spouts with worn con-

vexors; regulates working of machine

and aims to spouts, bags, into which

cleaned rice is passed automatically,

cf. rice miller (432).

cleanser, tank (sugar refining); a

labourer who cleans tanks used for

liming or other purposes, and fetches,

carries, and does other unskilled

work, e.g. work of bag dryer q.v.

cleanser, tin (bakery); wipes baking

tins, by hand, with a cloth, to remove

therefrom dust or other foreign

matter; sometimes also greases tin,

see greaser.

cool attendant, wash-off (sugar re-

fining); regulates cocks, or valves, on

charcoal cisterns; directs liquor and

sweet water to separate tanks, and

other water to main drain.

colour boy (sugar refining); squirts

liquid alkaline solution into central

portion of machine, while machine is

in motion, to intensify whiteness of

sugar; or adds colour to white sugar

in making yellow crystals.

confectioner's assistant; assists sugar

boiler (434) q.v. in one or more of

sugar boiling duties, e.g. weighing

or mixing ingredients, placing

"boil" in pans, turning out "boil,"

colouring; does not decide degree of

colouring, etc., necessary, but works

under direction of sugar boiler; cf.

confectioner's assistant (448).

cooler attendant (milk), see cooler,

milk.

cooler, golden syrup; golden cooler

(slang), see cooler man, syrup.

cooler hand, cooler man, vacuum

cooler man (sugar refining), see

cooler man (sugar refining).

cooler man (sugar refining); golden

cooler man (slang); golden syrup cooler,

golden cooler (slang); operates valve

allowing syrup to flow into a cylindri-

cal enclosed vessel having tubes

running through it, through which a

stream of cold water passes contin-

ually to cool syrup quickly; fills barrels

from tap, using a large funnel.

cooler, milk; cooler attendant (milk);

(1) is responsible for seeing that tanks

into which milk flows after pasteuriza-

tion and cooling, do not overflow;

opens tap, by hand, as each tank

becomes full, or allows milk to flow

into can or other receptacle;

closes tap when can or receptacle is

full, and puts empty can in position

under tank; or fills cans or bottles

with milk as it flows direct from

cooler without passing into tank;

keeps milk in tank, as each tank

before distribution to consumer by

placing filled cans on ice, or in

refrigerating apparatus.

corn labourer (grain milling); general

term for any unskilled worker

engaged in shelling corn or lifting

and wheeling sacks in a flour

conveyer, bucket, basket, or

bin; self porter, icing room worker;

(1) spreads jam, cream and cheese paste

on biscuits by hand, using a knife,

and, when required, succeeds small

pieces of icing sugar on biscuits

with a small icing stick.

(2) specially-shaped nozzle; (3) feeds and

controls machine for applying jam or

paste to biscuits; places biscuits, by

hand, in specially constructed grooves

on a travelling band, and regulates

amount of jam or paste passing

through slots to biscuits; when biscuit

and/or jam is finished, also feeds

machine with biscuits for supercool-

ing to form sandwiches.

greenery hand; general term for un-

skilled worker engaged in making,

preparing, packing, and/or selling

products of a creamery; includes

butter rolling and printing atten-

dant, cheese maker's assistant, cooler

attendant, milk cooler, milk receiver,

milk separator, separator minder

q.v.; in Scotland, a worker in a

margarine factory.

crusher, cocoa; cocoa bean crusher,

see nibber.

crystallizer ha-1, crystallizer man,

see heater man (sugar refining).

crystallizer's assistant (sugar confectionery); assists crystallizer (436) g.v. by filling trays with sweets before they are dipped in pans, and by draining and spreading sweets on trays after crystallization.

cutler, extruder (sugar confectionery); (i) puts rolled slab of caramel paste through cutting machine, which by means of a series of disc-shaped knives revolving on a spindle, marks off paste into cubes, starts and stops machine by moving a lever; (ii) cuts nougat into caramels by placing slab of nougat on a travelling band, which carries them under mechanical cutters, takes them off at other end, and places them on another travelling band, set at right angles to first, which carries them under another set of cutters; stacks slab of nougat, which are not cut quite through; starts and stops cutters and travelling bands by moving levers.

cutler, chaff; performs some or all of following operations:—(i) sorts or wheels trays of hay, clover, or straw from store room to chaffer; lifts tonnes on to a raised platform with a boy fork; cuts strings binding hay, etc., picks up with a fork, required quantity of hay, etc., and places in a horizontal chute or slot leading to a grip roller which carries it to chopping knives; feeds sifting machine with chaff which is mixed with other qualities of chaff, according to instructions of foreman; shovels chaff or "dust" into bags to be weighed; clamps bags to foot of chute connected with elevator, takes them off by hand, when full, and weighs them, ties up sacks of chaff and of "dust" after they have been weighed.

cutler, hay (not agricultural), or for cutler, chaff.

cutler, jelly; cuts jelly, received in trays from jelly pourer-out g.v., into cubes either by pushing tray under knife and depressing handle, or by pushing tray under cutters of machine, and operating machine by means of a lever.

cutler (oranges and lemons), lemon cutler, orange cutler, see cutler, peel.

cutler, peel; candied peel cutler; cutler (oranges and lemons), lemon cutler, orange chopper, orange cutler, shredder; cuts orange or lemon peel for use in marmalade making or candied peel, which is in cake making) by putting it in channel of a machine where it is brought in contact with revolving knives and sliced; removes sliced peel from tray at delivery end of machine; is sometimes employed part time as lemon splitter, peel pulper g.v. or as other unskilled work.

cutler, potato; potato slicer; (i) slices potatoes, by hand, by drawing them across a flat plater fitted with sharp cutter; (ii) puts potatoes into machine where they are sliced by revolving knives; starts and stops machine by moving a lever; removes delivery box when filled, and puts another in its place; usually employed part time on other work, e.g. as fruit and vegetable presser g.v.

cutler, sugar, see chopper, sugar.

cutler (novel), sweet cutler; (i) rolls confectionery paste, by hand or by machine, into slabs or sheets; cuts these into cubes or oblongs, by hand, with a knife; (ii) cuts confectionery paste, nougat, etc., into bars, squares, or other shapes, either by moving a lever to raise and lower a knife, or with a power-driven circular saw, or is a cutting machine, which by starts and stops by moving a lever; in small firms, often spends part time in other work, e.g. in work of roller (ball sweets) (435) g.v.

cutler-up, biscuit; breaks up rejected biscuits with a small iron hammer, or cuts them up with a small circular saw for sale as broken pieces: usually combines this duty with work of biscuit sorter g.v.

cutler-up (flour confectionery); (i) cuts up paste mixture, by hand, for tins, small cakes, etc., using shaped metal stamp; fills tins with these shaped pieces of paste mixture, ready for baking; (ii) inserts metal stamps, of required size and shape, in machine; empties dough (paste mixture) into hopper of inchies; starts and stops machine by moving a lever; takes out stamped pieces of dough and helps in filling tins, etc., therewith.

cutler, water (biscuit manufacture); collects sheets of wafers from water machines, and cuts them, by hand, into specified shapes and sizes, or bring them in contact with revolving saw, which is set in motion by moving a lever; is usually employed part time in filling, emptying, or carrying tins, in cleaning moulds, etc.

dairyman's assistant; assists dairyman (448) g.v. in milk factory, margarine factory, or creamery, by washing and scalding churns, separators, etc.

decarboider (sugar refining); attends a number of steam-heated cylinders (usually four) in which animal charcoal is decarbonized after purification in char kiln; fills cylinders, by hand, with charcoal, or more usually, fills elevators, or hoppers supplying elevators with charcoal; regulates steam valves heating cylinders, as necessary; sometimes also trunks, stacks, etc., charcoal.

decolorizing machine, milder (pepper); places pepper, in bulk, in decolorizing machine, which automatically removes bulk; regulates machine by means of a lever; removes decolorized pepper from machine.

drawer-off (sugar confectionery); draws or pulls out by hand, one end of a thick rod of plastic boiled sugar, forming it into long sticks about the dimensions of an inch in diameter; cut sticks into lengths and passes to ball roller (435) g.v.

dresser (cereal foods and starches); feeds hoppers of sieving machines with mixed ingredients for food powders; starts and stops machines, as necessary, with loose pulley lever; cleans silk sieves with a hand brush and shovels sifted powder; work usually done by mixer (cereal foods) g.v.

dresser, cocoa; keeps replenished the hopper which feeds dressing machine; elevator attaches bags to delivery end of dressing machine and removes filled bags from time to time; clears the silk sieves covering revolving cylinders by means of hand brush and changes and washes sieves, as necessary; starts and stops machine, as necessary, by loose pulley lever.

drummer, flour; flour sifter; moves flour sifting dressing machine into series with mixing machine (operated by flour mixer g.v.); flour is then automatically filled by silk sieves, rotating brushes, or other means.

dried milk machinist, dried milk maker; milk dryer; (i) operates and controls milk-drying machine; regulates supply of milk to rollers, and sets knives for removing dried milk from rollers; (ii) milk powder worker; operates, under direction of engineer, the spraying plant by which condensed milk is sprayed into a special chamber and falls as fine powder.

dry chow hand attendant; opens slides to allow dry chaf, i.e. charcoal before use, in filters, to run on to elevator bands for transmission to filters; operates switches to start and stop elevator bands.

dryer, bag (sugar); dries bags, used for filtering sweet liquor, after they have been washed by bag washer g.v.; arranges wet bags on hot pipes; folds and stacks bags when dried when dried in special drying room, regulates heat by steam, hot air valves, etc.; sometimes also washes bags.

dryer (cereal foods and starches); spreads food powders on trays to dry, or more usually, shovels it into steam or gas-heated revolving cylinder; stops cylinder when powder is dry and shovels out dry powder; usually gas heated cylinders are used, lights and regulates gas jets, as required; work usually done by mixer (cereal foods).

dryer-man (cattle cake); attends a number of steam-heated drying cylinders through which the cakes hawk automatically passes, regulates amount of husk feed through hoppers, by slides, and watches to see that feeds do not become choked, in which case clears chokes, sets machines; clears run between and around the machines; reports defective running to foreman.

dryer, milk, see dried milk machinist.

drying man (sugar refining); pushes bogies containing cane slabs to drying stores, where they are mechanically propelled through stores; pushes bogies, as they are mechanically ejected from stores, to cube-cutting machine.

drying room band (sugar confectionery); receives wooden trays filled with lozenges or other sweets; places trays in racks in a store room, heated with steam pipes, until lozenges, or other sweets, are dry and hard; elevator man (flour milling); attends elevator in flour mill, wheeling sacks of corn and flour to and from elevator, etc.

evaporator man (vacuum dryer), Eddie evaporator man; opens door of evaporator; places article to be evaporated, i.e. milk, milk chocolate, etc., on shelves; closes door, and sets machine in motion to draw air out of compartment in which article is placed.

filler, cask; (i) runs off vinegar from vats into casks and seals for despatch to warehouse; (ii) fills casks with pickles, spices, condiments, etc., and seals ready for export.

filter, char, distern; charcoal distern filter; (i) carries filled char down, places filter sheets at bottom of char distern; opens a chute, fed from a hopper which is kept supplied with charcoal by a conveyor band, and moves it about, as required, so as to distribute charcoal freely as it runs into distern, water inside distern, packing charcoal down level and preventing larger grains from accumulating at side of distern; when charcoal is spent, opens door at bottom of distern, a strong charcoal to run out; scrapes out small quantity that does not run out and removes filter sheet.

filter, jam filler; fills bottles, jars, etc., with boiling jam from receptacles; stacks filled bottles, etc., on racks to cool.

filter (liquid glucose); filter-out (liquid glucose); fills casks with liquid glucose, places vats in liquid glucose, places vats in liquid glucose, and pulls slide to open valves and run liquor in casks.

filter (meat preserving); packer (meat preserving); fills tins, jars or bottles with meat extract, potted meat or tongue.

filter, mince-meat; fills pots, jars, etc., with mince-meat.

filter, mustard; places empty tin, by hand, on automatic weighing scale attached to filling machine; releases tap of filling machine to allow mustard powder to flow into tin; closes tap when correct weight is registered, and removes tin from weighing scale.

filter-out; (i) (solid glucose) throws over loose pulley lever, as required, to start and stop stirring apparatus fitted to vats containing glucose liquor run from vacuum pan, of pan mass (solid glucose) (445); stirrers complete the thickening process; when stirring is complete, opens outlet valve to allow glucose to flow into shallow trays. (ii) (liquid glucose), see filter (liquid glucose).

filter, pickle, see bottler, pickle.

filter, starch; pours liquid starch into small square tin lined with rubber-like substance, in which starch is evaporated into blocks by hot-air suction.

fill house man, see machine man.

filter man, charcoal; in conjunction with other workers, operates hopper slides to run burnt, reactivated charcoal from endless conveyor into top of char filter canister, or "jerry"; takes out spent charcoal and opens hopper slides beneath "jerry" so that char falls into pipes and passes from top to bottom of charcoal reactivation machine, of kiln man (char house); regulates (at bottom of char house) the speed of band conveying reactivated charcoal to the top of char house for charging "jerry".

filter man (glucose); attends to cylinder filter machines fed with starch solution (or thin paste), pumped from storage tubs (see starch breaker) and sucked on to the revolving filter cylinders by means of vacuum; thus drawing off water containing glucose, etc., impurities not removed by paddle (448) g.v., while residual caked starch is scraped from the cylinders and falls into hoppers feeding further break machines; removes and washes filter cloths, prints cloths (by slipping under the cylinder wires and tacking), and scraper bars periodically; watches filtered starch and reports defects in passing of machines to work manager.

filter pan hand; attaches filter cloths to filter plates used in filter presses and screws plates into position in presses; removes cloths for cleaning, as necessary; or fills revolving cylinder with filter cloths for washing; starts and stops cylinder by loose pulley lever; regulates water flow in machine; removes and stacks washed cloths.

filter press attendant (margarine); attends to filter presses in which oils intended for manufacture of margarine are filtered, after passing through washing and bleaching tanks; regulates valves of bleaching plate to control flow of bleached oil from filter plates; periodically stops flow of oil, opens press and pulls caked "bleacher" from the filter plates.

fisher, longage, see picker, longage.
fish worker; general team for workers, mainly semi-skilled, engaged in preparation of fish for canning, etc.; includes fish gutter (448), hanger, fish tender, bobber, g.v.

floor hand (sugar refining); cleans floor of sugar refinery by sweeping up spilt crystals, shovelling up crystals and molten liquor, or washing floor with hose.

floor room hand (floor confectionery); acts as floor mixer g.v., shifts and stacks sacks of flour, starch and starch empty sacks, or cleans away other labouring work in floor room under direction of foreman (438) g.v. or of skilled floor blender (448) g.v. or fodder man (colliery), see granary labourer (colliery).

fuller's earth attendant (margarine); or bleaching tank attendant.

gatherer, starch; takes charge of setting frames, into which liquor taken from macerator has previously been poured; governs rate of flow of starch liquor over frames by regulating slides; scoops or shovels starch from frames when deposited; periodically, e.g. twice a day, stops feed of starch to frame, removes frames from their setting and washes them; assists golden syrup maker (445) g.v. by fetching and carrying, opening and shutting valves under his direction.

grainman, vinegar; empties, by hand, sacks of barley into tanks or cisterns of water, to steep. It removes grain after steeping from tanks or cisterns by hand, with a wooden shovel, and steers it on ground, where it remains for about three weeks; during this

time turns grain over with a wooden shovel, to allow air to get to it, then fills baskets with grain, and sends it to kilns.

granary labourer, granary man (colliery); chafhouse, fodder man; a surface man who has charge of passenger (see chaf cabin), and distributes provender required for horses and ponies.

granary labourer, granary man (grain milling); loads and unloads grain, etc., and does other unskilled work in granary.
granary woman; cleans offices, sweeps floors of granary; cleans bins or vans; sometimes also pushes hand trucks and makes up empty sacks into bundles.

greaser (floor confectionery); brushes or sprays liquid grease on tops of loaves before they are placed in oven, to give loaves a polished brown surface.

greaser, tin (bakery); smears grease, or applies liquid grease with a brush, on inside of bread, cake or pastry tin, in readiness for their being filled with dough, etc.; sometimes done by tin cleaner g.v.

grinder, almond; pours bleached almonds for making almond paste into hopper of grinding mill, controlled by means of a lever; removes ground almonds from delivery trough from time to time.

grinder (cereal foods and starches); pours mixed food powders into a disintegrating machine which reduces ingredients to a finer powder by means of revolving blades; or pours powder into bowl (chase) of edge-runner mill, commences grinding until he judges powder to be sufficiently fine; "bags" ground powder; where a sifting attachment is fitted to machine, periodically brushes sieve; work sometimes done by mixer (cereal foods) g.v.; cf. sifter (cereal foods and starches).

grinder, ginger; shovels ginger into large mill equipped with grinding stones; watches progress of grinding, and shovels out ginger when process is complete; often works part time as pepper grinder or as spice grinder g.v.

grinder, pepper; as for grinder, ginger; often employed interchangeably as ginger grinder or as spice grinder g.v.

grinder (solid glucose); with iron bar or edger, knocks slabs of set glucose from the setting trays, stacks on trucks, wheels to grinding machine, breaks up slabs and throws into hopper of grinding machine; occasionally stops machine to clear chokes; ground glucose is carried away by delivery conveyor.

grinder, spice; as for grinder, ginger; often employed interchangeably as ginger grinder or as pepper grinder g.v.

grinder, sugar; sugar mill attendant, sugar mill worker; keeps replenished, hopper of mill for grinding sugar crystals to an even grain, or when endless conveyor is used, watches to that constant feed is maintained and that delivery band collects the ground sugar effectively; starts or stops mill, as necessary, by loose pulley lever; reports fault running to engineer or foreman; sometimes employed part time on other work, e.g. packing bags, trucking.

grinding machine blender (cocoa); assists cocoa grinder (445) g.v. by tipping cocoa nibs into hopper of grinding machine, when not done by filler g.v.
handyman (sugar refinery); cleans up floors and yards; assists in loading and unloading sugar and charcoal, and does other similar unskilled jobs.

hanger (fish curing); cures; places spits, or rods, on which spilt fish are hung, in smoke house, under direction of smoker (437) g.v.
hafter man (condensed milk); works in pasteurising room, in which temperature is high; keeps correct temperature of heat in pasteurisers, by

regulating steam valves, and maintains supply of milk in pans by governing flow of milk into pans and of heated milk from pans, by means of inlet and outlet valves.

hafter man (sugar refining); cooler hand, cooler man, crystalliser hand, crystalliser man, vacuum cooler man; adds water to heaters, receivers, coolers or crystallisers, i.e. open tanks placed under vacuum pans into which cooled sugar (masse cuit) passes after treatment in vacuum pans; scrapes sides to prevent clogging; starts and stops agitator gear, e.g. mechanical stirrer; watches progress of crystallisation and reports periodically to engineer or foreman.
hoist and stove girl (sugar confectionery-laboratory); in small liquorice factory, carries drying boards to and from stove, and also operates hoists or lifts.

holder, bag (grain milling); assists flour porter g.v. to lift loaded bucket of grain on to hook of weighing scale; holds mouth of sack open during process of filling.

hopper attendant (margarine); in charge of lifting gear by which trays of margarine are lifted and contents tipped into hoppers supplying multiplexes, i.e. kneading machines; shovels margarine into the conveyors feeding hoppers; starts and stops conveyors, as necessary, by pulling lever; in large factory, multiplexes, cf. multiplex attendant.

hopper man (grain milling); shoots grain, beans, etc., from sacks into hoppers, whence grain, etc., is automatically conveyed through aprons or by cap elevators to machines.

icing room worker, see coverer, blent.

intake man, grain intake man (grain milling); at a signal from men on ship, barges, etc. alongside, wharf that section pipe is inserted in grain, starts air pump, which draws up grain through pipe by suction; grain is automatically weighed as it enters mill, and passes direct to the cleaning machine; stops pump if section pipe becomes choked; tests weighing apparatus from time to time with standard weights.

jelly pourer-add; pours jelly mixture from large stirring pan into buckets it has been loaded with jelly boiler (448) g.v., into smaller shallow trays, where jelly is allowed to solidify; takes trays of set jelly to jelly cutter g.v.

keeper-up (sugar confectionery); takes off or collects finished balling machines, two weeks made by ball roller (435) g.v.

keeper-up (sugar confectionery); as for sauce maker.

kibbler (cocoa); (i) see nibber; (ii) where work is seasonalised, fills hopper with beans; controls by means of lever or switch, rubbing machine which crushes beans and grinds into different degrees of fineness; cleans sieve; attaches bags for receipt of graded crushed nibs, etc.; attends a number of such machines; sometimes does work of "finger" nibbler.
kibbler, roller; sits spits in hopper of grinding machine (resembling a coffee grinder), and turns crank, by hand.

kiln drawer (sugar refining); removes charcoal, either newly made or recharged, from foot of kilns when ready for use in char house.

kiln fireman (grain milling); stokes furnace supplying hot air for drying kiln; when required temperature has been reached, starts fan, to drive hot air from furnace through drying kiln.

kiln fireman (sugar refining); lights, replenishes and stokes fire under kiln, or works oil feed coils in case of oil engine or oil-fired engine.

kiln man; supervises drying of washed peas, beans, lentils, etc., over a coke fire by steam apparatus.

kiln man (char house-sugar refining); has charge of a number of charcoal reactivation kilns, e.g. sixteen, regulates by screw valves, heat gas return, opening furnace doors from

time to time to inspect state of furnaces; working in conjunction with charcoal filter man *q.v.*, watches to see that there is no choked charcoal in kiln pipes, by ensuring that there is a steady feed to the charcoal conveyor under the kiln; if there is a choke, signals for stopping; if there is a choke, signals for stopping; shuts off furnace and clears stoppage.

kiln man (sugar refining); general term for any worker at kiln, including kiln charger, kiln drawer, kiln fireman *q.v.*

kiln minder (grain milling); conveys sacks of grain from store and shoots grain into kiln; regulates supply of steam to kiln; removes grain, when dry, into sacks.

kiln trimmer (sugar refining); levels with a shovel, charcoal in bunkers over kilns in which charcoal is re-burnt after being used in sugar refining process.

kneader (margarine), *see* blender (margarine).

kneading table (margarine); (i) with another worker, either attends to kneading table or on salt is kneaded into margarine on a circular chase by means of rollers, i.e. feeds rollers with salted margarine or gathers margarine on the "chase" and works it into large balls for conveying to the multiplex, *cf.* multiplex attendant; controls knoeading machine by means of pulley lever; (ii) is engaged on a kneading table whereon margarine from multiplex is kneaded by a fitted one roller working over a circular chase; throws margarine on to chase; cuts margarine on chase and when he considers that margarine has reached consistency, sufficient water having been expelled, stops machine by pulley lever and assists in removing margarine; refills chase with fresh margarine or presses margarine just emptied from the kneading machine into a second machine for final kneading by means of revolving knives, tips kneaded material into trucks for conveying to moulding machine attendant *q.v.*

labourer, fruit (canning); carries heavy trays of fruit, removes this after filling and does other unskilled work in fruit canning factory.

labourer, kiln (miller's); under direction of kilnman, kiln minder or roaster (448) *q.v.* or other relatively skilled worker, cleans machines, sweeps floors, bags waste products, etc., separated from grain, and assists in turning over grain in kiln with hand shovel or rake; fetches and carries for kilnman, etc. *q.v.* and assists him generally; sometimes specifically designated, *e.g.*, cut kiln labourer.

labourer, sugar house; shovels sugar into and out of machines and tanks, and does other unskilled work in sugar house, *e.g.* trucking, spreading, etc.

leveller (sugar refining); (i) levels charcoal in char cisterns as it is shot in by char cistern filler *q.v.*; (ii) a labourer spreading charcoal on the char end.

lime tank attendant (sugar refining); regulates supply of lime and water to tanks by operating valves; stirs mixture, until it attains consistency of milk of lime; opens valve, and allows milk of lime to run off into hoggies; pushes hoggies about, wherever required.

liner, tin; tin popper; in large bakeries, lines inside of cake tins with thin greased paper, in readiness for their being filled with cake mixture.

linker, sausage; punches and twists a weighed length of filled sausage casing to form short lengths or sausages; folds and bundles up, with strip of paper, sausages ready for despatch.

liquor man's assistant, liquor man's mate; assists liquor man (sugar) (448) *q.v.* generally, *e.g.* opens and closes valves under instructions, flushes empty charcoal cisterns.

flooder (sugar confectionery); conveys bread, etc., from store room and loads it into vans; usually done by store hand *q.v.*

flooder (grain milling); loads bags, boxes, barrels, etc., of flour, oatmeal, etc., on to lorries, trucks, carts, etc.

loftman (grain milling); (i) stands at top of mill and manipulates hoisting tackle for raising empty bags, etc.; (ii) in Scotland, general term for any man employed in a granary (i.e. left) as a warehouseman, in loading and unloading, storing, etc.

machine assistant (scraps); assists, with other minder workers, biscuit machine minder (433) *q.v.* and performs one of following operations—feeds rollers with dough; watches separation of cut biscuits from scrap dough, and picks off loose pieces of scrap; watches automatic placing of cut biscuits on baking time and picks off scrap dough; feeds machine with baking time; lifts (ins of cut biscuit dough from end of machine and places them on racks for transit to ovens.

machine man, centrifugal machine man; charger, churning man, centrifugal machine charger; centrifugal machine charging man, all these men, except (centrifugal machine); shovels wet sugar with wooden scoop into sugar container, or opens valve and allows sugar crystals in mother liquor to flow from worm trough into centrifugal machine; operates and controls, by means of loose pulley or switch, centrifugal machine which drives off syrup and so dries sugar crystals; if necessary turns on high pressure spray of water to wash sugar; discharges sugar, which is now dry, using a screw conveyor; unless machine is equipped with mechanical discharging apparatus; syrup is conducted to pans to await treatment in vacuum pans.

machine minder's assistant (grain milling); assists machine minder (432) *q.v.* in labouring work, *e.g.* moving sacks, stoking furnace, cleaning machines, sweeping floor; *cf.* cleaner (grain mill) (370).

malt man, vinegar; a labourer in malt room of a vinegar factory; duties similar to those of malt room man (brewery) (459) *q.v.*

maltster (vinegar), *see* mash house man.

margarine maker, margarine worker, also-margarine maker; general terms for any person employed in manufacture of margarine, including bleaching tank attendant, blender (margarine), blender's assistant, margarine charger (448) *q.v.*

mash house man (vinegar); maltster (vinegar), vatman (vinegar); empties sacks of grain, by hand, into hopper of grinding machine which is on next floor below; opens a valve, by hand, and allows grain to flow from hopper into grinding machine; sets machine in motion; grain, now reduced to powder, is transmitted mechanically to hopper of vat, a cylindrical iron vessel about nine feet deep, in which it is mashed by application of hot water; opens valve, and allows hot water to flow into vat; ensures that correct temperature is maintained, either by opening, by hand, lid of vat and allowing steam to escape, or by adjusting hot water valve; when process is complete, removes metal plate from bottom of vat, and pushes mash through this opening into pipe of conveyor with a long wooden rod, watches to see that grinding machine is running smoothly and cleans vat with a brush or broom when necessary.

mealman (grain milling); in small mills, places grain in stone mill for crushing into meal; draws meal off into bins; sometimes done by stone-man (432) *q.v.*

melter, fat (margarine); margarine melter, melter control man, melter man (margarine); runs known quantity of oil from storage tanks into steam-jacketed melting tanks, and tips in, by hand, measured quantities of constituents fats from barrels to liquify them; controls temperature of tanks by steam cocks and regulates mechanical stirrers, when tested by taster (448) *q.v.*, opens a valve which puts a steam pump in action, causing liquefied fats to flow through pipes, either to refining room for further treatment, or to churns.

melter (sugar refining), melter man (sugar refining); watches process and regulates, by means of valves, quantity, temperature and specific gravity of liquor leaving melter, i.e. a longitudinal vessel provided with a spiral conveyor, used instead of a blow-up plant.

milk room man; in margarine factories, opens valves to run skimmed milk into hot water-jacketed tank and pours in scouring solution; allows milk to cool and, according to weather, turns on steam to heat water to take the lactic acid up to temperature required to sour the milk; runs soured milk through steriliser and then pumps into cookers, watching temperature of milk by using thermometer and meter regulates flow and working of pump by pulley lever, valves, etc.

milk powder worker, *see* dried milk machinist.

mill attendant, starch, *see* mill man, starch.

mill attendant, sugar, *see* grinder, sugar.

miller (maize); attends six mills for grinding maize used in making starch or liquid glucose manufacture; regulates, by slides, quantity of steeped maize passing through channels to mills; occasionally takes a sample of milled grain flowing from mills and if he considers that machines need adjusting, stops machines, by throwing over gear lever, and reports to works manager.

mill hand (horse feed); operates and controls two or three machines for mixing ingredients used in the manufacture of oil cake, etc., for horses; feeds hoppers, by hand, from sacks, or more usually, regulates continuous feed by slides; watches to see that there are no "chokes," and clears such when they occur; starts and stops machine, as necessary, by pulley lever; bags mixed ingredients as they are delivered from machines through chutes.

mill hand (mustard); feeds mustard grinder *q.v.* by bagging ground mustard seed, i.e. mustard flour, and trucking bags of flour to mustard blender (448) *q.v.*

mill man, starch; starch mill attendant; empties rice from sacks into hopper on floor above mills in which it is to be ground, and does any other labouring work in starch mill.

mill worker, sugar, *see* grinder, sugar.

mixer boy (sugar refining); (i) regulates, by loose pulley lever, belt carrier which conveys raw or imperfectly refined sugar to first vacuum floor, to be mixed with other sugar in preparation for refining; sometimes assists in filling hoppers supplying belt; (ii) attends blow-up instead of adult blow-up man's assistant *q.v.*, or attends tanks in which sugar liquor is treated with sulphurous acid, turning valves on or off and doing odd jobs for workman in charge, *e.g.* inversion man.

mixer (cereal foods and starches); **blender** (cereal foods and starches); under foreman's instructions, weighs ingredients for food powders and pours into rotary mixing machine; controls machine by loose pulley lever and shovels out mixture after specific interval, adds colouring and flavouring when not done by foreman; usually also does work of dresser and dryer (cereal foods) and sometimes work of grinder (cereal foods) *q.v.*

mixer, egg; egg blender; stirs and mixes ingredients for liquid egg mixture, under direction of chemist, in small establishments, also tests mixture.

mixer, flour (flour confectionery); empties by hand, quantities of different kinds of flour, in proportions decided by flour blender (445) *q.v.*, into machine which, by means of a rotating cylinder, mixes flour with sugar, assists in weighing flour, trucking from store, etc.; often also assists in bakehouse, *e.g.* greasing tins, etc.

mixer, fruit; (i) weighs out correct proportions of fresh fruit and sugar, according to recipe, mixes and places them in large tubs to stand until required for jam boiling; (ii) weighs out correct proportions of ingredients of mince-meat, according to recipe, chopping or mincing them (if necessary), either by hand with a knife, or by putting them in hopper of a machine which is set in motion by moving a lever; mixes ingredients, which may be done in various ways in different establishments, and stirs them together.

mixer, sugar (condensed milk); cleanses sugar syrup and prepares solution for mixing with milk before condensing process is started; boils syrup in steam-heated tanks, regulating steam valves as necessary; skims scum from syrup, adds preservatives, colouring, flavouring agents, etc., as necessary, and runs off the mixed solution.

mixing room worker (biscuit making); weighs (biscuit making); weighs out specified quantities of ingredients for the manufacture of biscuits under direction of mixer (438) *q.v.*

montajuela attendant, montajuela boy; stands by valves of montajuela apparatus by which level of a liquid in a tank is raised by steam or air pressure.

moulding machine attendant (margarine manufacture); with another worker, either (i) presses margarine into contact with worms which convey it through rollers and press it through moulds, delivering it in cylindrical form, or (ii) raises and lowers a frame containing knives or wires which cut margarine into 1 lb., 1 lb. etc. lots as margarine emerges from moulds; works treadle to engage or disengage pulley lever, lowers moulds and sets cutting knives in frame as necessary.

multiplex attendant (margarine); with other workers, is stationed either at feed end or delivery end of multiplexes, *i.e.* kneading machines in which margarine, after kneading and sometimes after first cooling (*cf.* kneading table attendant) is pressed into a solid mass and salt added; shovels margarine into feed hoppers, or, when stationed at delivery end, cuts, with hand knife, blocks of margarine as it emerges from machine.

neutraliser, neutralising man (solid glucose); mixes whitening, lime, etc. to neutralise and clean acidified starch liquor; operates as for neutralising man (sugar refining).

neutralising man (liquid glucose, *as for neutraliser* (solid glucose); weighs and mixes soda with water; boils and adds to vats.

neutralising man (sugar refining); weighs, measures and mixes lime and other ingredients to neutralise acidity of sugar liquor, and to assist clarification, etc.; pours mixture into open lead-lined vats containing sugar liquor from time to time as directed by chemist or by inversion man (448) *q.v.*; takes samples to laboratory in time to time, as required; carries trucks, etc., as required; sometimes also does other unskilled work, *e.g.* that of tank cleaner *q.v.* **ribber**; *cocoa bean breaker*, *cocoa bean crusher*, *blipper*, *winnowmer*, *winnowing machine* *runner*; operates and controls machine which crushes roasted cocoa beans by means of rollers, draws off husk and impurities by means of an air blast and which sifts crushed cocoa into degrees of fineness and delivers them into bags via grading chutes; fills hopper with cocoa beans; starts up machine and adjusts hopper feed by regulating hopper slide; watches process through glass doors in machine and regulates intensity of air blast; if necessary, adjusts setting of crushing rollers; cleans sleeves with hand brush; clamps bags beneath the grading chutes and, on the reverse side of machine, clamps bags for receipt of winnowed husks, keeps hopper full of beans, or empties bags, as necessary; in works where chocolate grinding machine is placed on floor below, fills hopper of this machine, *cf.* chocolate grinder (445).

nut room worker (sugar confectionery); general term for any worker preparing nuts for sweet making, including nut blancher, sheller, *ester* *q.v.* **outflow basin attendant** (margarine); attends to crystallising vats in which ingredients of margarine, after mixing and obtaining to consistency of cream, are crystallised by flow of ice-cold water; under direction of channer (448) *q.v.*, regulates flow of water on to water in a hole, covered and kneads water and margarine with special wooden tool, water flowing from vat as waste; crystallised margarine falls into a large wooden vat, at bottom of which is a hole, covered by a trap-door, opens trap-door when vat is full, letting margarine fall into truck beneath.

oven assistant, oven feeder, see assistant ovenman.

packer, flour packer (grain milling); **packer** (grain milling); feeds a sack by hand, by a clamping arrangement to end of large circular chute, through which flour runs automatically from drawing machine; pull lever which allows flour to drain to floor into sack; flow stops automatically when required quantity has entered sack; packs flour more closely into sack with a punch, or tamping machine, operated by foot lever; lifts sack by hand, from automatic weighing machine on which it has been standing, and checks weight it on an ordinary weighing machine; sews up open end of sack or ties it up with string, since which it is away or puts chain round it, ready to be hoisted and removed; *cf.* packer (grain milling) (249).

picker (meat preserving), see filler (meat preserving).

picker, tin, see liner, tin.

picker, biscuit, see cooperer, biscuit; **picker, onion**; peels onions for pickling; see picker (pickles), and cuts away any defective parts.

picker, orange (jam making); peels orange by hand, for marmalade making; usually done by machinery, see pulper, orange.

pepper maker; decorates pepper, see decorating machine minder; grinds pepper, as for grinder, pepper, also as pepper by hand, into grades according to colour. **picker, almond**; sorts blanching almonds, rejecting those that are faulty or discoloured.

picker, bone (preserved meat); removes bone, removed by butcher from carcasses and joints, and cuts off, for preserving meat, still adhering. **picker** (cocoa and chocolate), *cocoa bean picker*; *cocoa bean cleaner*, *cocoa bean sorter*; picks out inferior cocoa beans by hand, and removes other large impurities; *cf.* cocoa bean winnower.

picker, confectionery (sugar confectionery); (i) examines trays of finished sweets before they are checked for hardening, picks out broken sweets, etc.; (ii) separates gums, fondants, creams, etc. from fruits, etc., after crystallisation.

picker, fruit (in factory), see cleaner, fruit.

picker, lozenge; lozenge finisher; a confectionery picker *q.v.* engaged in picking out broken lozenges.

picker, milt; milt picker; in fish curing, picks over cod, removes from herrings before pickling, to collect herring roes.

picker, pea (grain milling); sorts peas before splitting or grinding; rejects broken peas and grades remainder according to size.

picker-out (condensed peel); under supervision of peel candler (436), picks out candied peel from boiling syrup; sorts out, fills with thick syrup; places peel on trays and packs at a gentle heat; works sometimes done by peel candler (436) *q.v.*

picker, egg; prepares a pickling solution and places eggs therein; in some establishments, assists in packing the pickled eggs.

pickler (fish curing); soaks up liquor and places in brine, herrings prepared for pickling, before they are hung on rods for curing; removes from vats when sufficiently pickled, usually done by fish curer, *runner* *q.v.* (437) *q.v.*

pickler (pickles); puts raw vegetables into tub of brine; runs off liquor when vegetables are tenderised; transfers vegetables, which are then bottled, to bottler, *picker*; may also make mustard pickles, with tumeric and blackening spiced sauces.

plier (jam making); *pot stocker*, *stocker*; fills or stocks filled jars in vat in warehouse, to await finishing operations.

plodder attendant (margarine); attends to plodder, *i.e.* a machine which presses margarine into square-shaped blocks, in preparation for bulk packing; presses margarine into hoppers and removes blocks of margarine from delivery end of machine; controls machine by means of pulley lever; work is sometimes done at delivery end of multiplex machine, *cf.* multiplex attendant.

polisher, rice, see channer, rice.

preparer, pot (jams, pickles, etc.); sets out jars or fills appropriate size in readiness for jam making.

presser, fruit and vegetable; fruit presser, vegetable presser; (i) feeds hopper of hand compressing machine with preserved dried fruit or vegetable; places tin in position under machine; sets screw down, which sets machine in motion and fills tin with compressed fruit or vegetable; (ii) (*flex* usually) puts tin in position under power-driven and automatically compressing machines, and removes tin from delivery conveyor, when filled; is usually engaged part time on other work, *e.g.* compressing meat, fish paste, and other comestibles, pressing potatoes, etc.

press hand (sugar refining); presses (sugar refining); operates and controls hydraulic press for extracting juice from dried pulp of beet-root; fills press with bags of pulp; operates press by hand lever; removes bag of residual pulp.

press man, filter (sugar refining); controls flow of liquor, after it has left hydraulic press, through filter to receiving tanks and thence to chr. citrux, by opening or closing valves to pass liquor through particular filter bags desired, under direction of filter

man (448) g.v.; screws bag filters into position in vats and removes and washes, as necessary, when this is not done by bag washer g.v.

press man (maize meal); attends to large cylinders into which maize meal, after being heated, is automatically discharged by means of spiral coils; inserts aluminum plates at specified levels in cylinders, which, when full, are put under hydraulic pressure, for extraction of oil from maize meal.

pressman (sugar refining); see press hand.

pricker-on; see tenter.

pulper, orange; presses oranges, which have been cut in half by orange splitter g.v., against revolving, serrated steel head, which grinds out the pulp.

pulper, peel (lemons); for clear squash, receives cooled lemon halves from lemon capper (449) g.v. and removes pulp therefrom with his thumb; (u) for cloudy squash, presses halved lemons (uncooked) against revolving serrated steel head, which grinds out pulp, starts and stops machinery by moving a lever; is sometimes employed part time as peel cutter, lemon splitter g.v. or other unskilled work.

pulverizer (cereal foods); attends to number of pulverizing machines, e.g. six, watches process, taking samples of flour from time to time and regulating, by hopper slides, the feeds to machines; stops machines occasionally (by pulley lever, etc.), to clear chokes; cleans brushes and washes, as necessary.

pulverizer (coconuts); feeds pulverizer or "covered-in" mangle, with pieces of coconuts, as recovered from coconut breaker g.v., either by hand or by means of a chute; machine crushes them between two rollers, usually made of granite, and valves and slides coconuts, now reduced to powder, to flow into a bin or other receptacle; repeats process, if powder is not fine enough.

pumper, vinegar; vinegar pumpman; racker (vinegar); sets pump in motion, or opens by hand, valve allowing or forcing fermented but unclarified vinegar to flow through pipe into filtration vat, or clarification vat, i.e. wooden vessels 18 feet deep, sometimes containing wood pulp or other clarifying agent; removes wood pulp, etc., from time to time, to be washed and cleared for further use; watches glass indicator, and stops flow of vinegar, when filtration vat is full, cleans filtration vat by hand with a broom, when necessary.

racker (vinegar); see pumper, vinegar.

receiver, milk (pasteurizing, etc.); compares milk invoices with quantity actually received, records quantity received, and source of supply; may be employed at railway station where milk is received, or at central depot of firm.

returned sugar hand; pushes truck containing sugar returned from deposit room (Customs and Excise) to melting pans.

roaster, chocolate; (i) roasts chocolate in coke-heated cylinder, "nibs" it, i.e. breaks into small pieces, and grinds in hand or power-driven machine; (ii) "nibs" and grinds chocolate; roasts on gas-heated open tray; usually done by coffee roaster (446) g.v.

rubber-down (fruit); empties fruit or pulp (usually orange pulp) into hopper of machine which separates pulp, etc., from pulp, by means of rollers and sieves; controls machine by means of a lever, brushes pulp from sieve and rollers, and collects them; removes vat filled with pure pulp, which has run out of machine, from beneath machine, and replaces it with empty vat; sometimes treats other fruit, e.g. straw berries, plums, currants, in same way, changing sieves as required.

runner (flour confectionery); runs sacks of flour from floor room to mixing machine, using hand barrow or run-ways; or bread, biscuits, cakes, etc., to and from oven; sometimes specifically designated, e.g. flour runner.

sample boy; sampler (sugar refining); wash-up boy; carries samples of sugar syrup, etc., from one place to another, as directed; washes sample bottles; takes messages.

sampler (sugar refining); (i) see sample boy; (ii) insecta brier, i.e. an instrument resembling a cheese taster, into a certain proportion of bags of sugar as they are unloaded; puts sample contained in brier, together with others taken from same lot of bags, in a bucket, and takes them to chemist; also takes samples of refined sugar to Customs and Excise Officer, to assess duty.

sauce maker; sauce boiler; receives ingredients, which are mixed in exact proportions according to a standard recipe or formula, from store room or works laboratory; puts them, by hand, in a steam-jacketed "kettle", sometimes a large bag allowing sugar and other liquid ingredients to run into kettle; tests temperature of contents of kettle with a thermometer; stirs ingredients frequently with a long wooden paddle; judges when ingredients have been boiled sufficiently, or works in accordance with instructions given by chemist; ladles out small quantities, and passes them to another worker to sift for convenience of examination by chemist.

scalesman (bakery); see weigher (bakery).

scoper (centrifugal machine); see machine man.

scraper, skin; (i) scraper, with knife, loose skin from inner side of sides of pigs' carcasses in preparation for skin curing; (ii) skin scraper, house worker who washes and scrapes stomachs of cattle (trips) in a stream of water.

scraper, starch; scrapes blocks of starch prior to wrapping to remove dirt or marks from faces of blocks.

scum mixer attendant (sugar refining); (i) attends open tanks or cisterns in which bags, sugar bags and sheaths are washed, thereby recovering sugar, e.g. scum, adhering thereto; (ii) bag mixer; (iii) attends tanks in which scum is treated by injecting steam to extract and save any sugar juice that may remain; regulates amount of scum water and steam entering tank; directs off liquor, and discards remaining scum.

separator, milk; separator mindar; operates and controls machine for separating cream from milk; pours milk from pails or churns into receiver, turns separator wheel by hand or, more usually, switches on power; watches indicator to maintain required revolutions per minute; sets pails or churns to catch flow of milk and cream from separator; sometimes also takes separator to pieces and washes parts.

sheller, nut; holds nut in one hand, and cracks shell by striking end with a wooden mallet held in other hand; removes shell from kernel.

sheller, pea; (i) removes peas from pods, by hand, for preserving in bottles, etc.; (ii) shells peas in vegetable market for sale wholesale or to hotels, etc.

shooter, wheat (grain milling); unfastens mouth of sack of wheat and shoots grain into bin, hopper or other receptacle.

shoot lad (food or starch factory); stands by chutes and maintains regular flow down chute by clearing away any blocks or obstructions.

shoveller, starch shoveller; in conjunction with other workers, shoves starch of starch runs into trucks (after padding by starch paddler (428) g.v.) ready for starch breaking; when a starch breaker g.v. is not employed, pours the starch into stirring tubs or into hoppers feeding tubs.

shoveller (sugar); sugar trimmer; (i) a box man, i.e. using a shovel to fill chutes hopper feeding centrifugal machine; (ii) uses a shovel to move or turn over sugar at any stage of manufacture, e.g. to turn it over for cooling purposes.

shredder, see cutter, peel.

siever, after (cereal foods and starches); empties sacks of cereals; spreads cereals on trays for examination; in powdered starch manufacture, feeds hopper of a sifting machine with starch, and, where machine is not operated continuously from shading, etc., starts and stops machine by means of levers; sifting is often done on grinding machine, see grinder (cereal foods and starches).

siever, egg; passes liquid egg through a wire sieve previous to bottling; after, flour, see dresser, flour.

sifter, lozenge; removes sugar dust, etc., from finished lozenges in a sieve in readiness for packing.

slicer, potato, see cutter, potato.

sorter, biscuit; sorts baked biscuits and rejects those that are badly baked or mis-shapen; usually combines this duty with work of biscuit cutter-up g.v.

sorter, cake (flour confectionery); in large bakery, sorts cakes according to sizes and varieties, rejects mis-shapen or badly-baked cakes, before packing or selling.

arter, cocoa bean, see picker (cocoa and chocolate).

sorter, egg; egg candler; holds egg against powerful electric light and, by appearance, judges age and condition of egg; sorts accordingly; also sorts according to size, preparatory to picking or use in food manufacture.

sorter, fruit (jam making and fruit preserving); sorts fresh fruit by hand and rejects faulty or decayed fruit.

sorter, nut (flour confectionery); sorts nuts received from nut blancher g.v.; removes loose skins and rejects faulty nuts.

splitter, lemon, as for splitter, orange.

splitter, orange; (i) throws oranges into inclined feed trough of machine, from which they fall into a revolving cylinder, where they are brought into contact with knives and are cut into halves, falling into delivery boxes; starts and stops machine by moving a lever; removes filled boxes, and replaces with empty boxes; (ii) puts oranges in position on a grid, and presses a knife down, cutting them in halves; is sometimes employed part time in other work, e.g. as peel cutter or peel pulper g.v. or in other unskilled work.

sputman (grain milling); attends spouts for conveying stock in flour mill from one point to another by gravity; starts and stops machine by moving spout valves, slides, etc., are in proper position, and for maintaining uninterrupted flow of flour through spouts.

sprayer; sprays flavouring essences over mechanically-mixed baking powders.

spreader, lozenge; spreads newly-cut lozenges flat on wooden tray; passes tray to lozenge picker g.v.

stacker (jam making), pot stacker, see picker.

stageman (grain milling); receives sacks of wheat or other grain into mill, at landing stages, and shoots it into bins.

starch hand (female); assists male starch hand (434) g.v. prepares trays or moulds by cleaning them, and lining them with starch, to prevent adhesion thereto of "bed" or "gum"; keeps male starch hand supplied with trays, and carries them when full to shoving room to dry starch workers; generally serves for any person engaged on any process in manufacture of starch, including grain cleaner, starch sifter, grinder (cereal foods and starches), starch hand g.v.

stirrer man (sugar refining); receives sugar from vacuum pans into mechanical stirrer; regulates stirrer by loose pulley lever; decides when operation is complete, stops stirrer and operates valve to run off liquor into either cooking trays; cf. filter-out (solid glucose).

stoner, rinsin stoner; pons raisins (or similar fruit) into hopper of raisin stoning machine; is usually employed part time in carrying trays, trucking, cleaning fruit, etc.

store hand (bakery): stacks loaves of bread, cakes, pastries, etc., as received from oven, on shelves fixed in racks mounted on wheels; runs racks to and from cooking room and store room; usually also does work of loader g.v.

stripper (liquorice), all sorts stripper, corks stripper, liquorice stripper; removes liquorice from drying boards by hand, in readiness for roller-out (438) g.v.

takar-off (sugar confectionery); collects cut lozenges from cutting machines in wooden trays and carries them to benches.

tank man, hag (sugar), see washer, hag.

taskman (margarine); weighs drums containing oils and records weight; inserts flexible tube connected with cylindrical pump in casks and starts up pump to pump oil into storage tanks to await drawing of oil by meter, cf. taster (433) g.v.

taster, fish taster, g.v.; takes on; hangs fish on tenter hooks fixed in wooden bars to be hung in smoke house; fish is usually dried, cf. river (437).

taster, tin (preserved provisions); judges whether sealed cans of fish, meat and other provisions are airtight, by striking the side of tin and listening to sound thus produced.

tinner, egg (food preserving); pours liquid egg mixture into screw-topped tins; usually also labels tin after filling.

tower, see hanger (fish curing).

traveller boy; stands by traveller or conveyor and assures proper working; removes obstructions or sets rollers straight on conveyor.

trimmer, hay (not on farm); trims sides of crates or bales of hay with a special knife; does other labouring work at corn merchant's or grain dealer's wharf, warehouse, etc., e.g., cleaning.

trimmer, sugar, see shoveller.

truck pusher (margarine); pushes trucks containing margarine, after mixing and churning, into maturing room.

trusser, hay (hay dealing), or for hay trusser (554).

vacuum boiler attendant (margarine); attends to a vacuum boiler, or steamer, in which oils intended for manufacture of margarine are de-aerated, after passing through washing tanks, bleaching tanks, and filter presses, by means of high-pressure steam under vacuum; guarded by gauge, keeps steam at desired pressure by regulating steam valve.

valves, stokes boiler; sometimes has other duties, e.g. to watch and keep running plant, such as margarine refrigerator, controlling valves to regulate water flow, and starting and stopping plant by pulley lever; reports any defects to stoker.

vatman (vinegar), see mash house man (vinegar).

washer, bacon; washes parts of cured or smoked bacon in water, before packing.

washer, bag (sugar refineries); bag task man, wash-house man; places bags in centrifugal washing machine; starts machine; injects hot water twice, i.e. makes two hot water washings, injects cold water, stops machine; removes bags; opens valves to run off sweet water, to recover sugar therefrom; cf. seam mixer attendant.

washer, filter cloth, as for washer, bag.

washer (fish curing); washes herrings after splitting, either by shaking them in baskets under a stream of water, or by passing them through a washing machine, sometimes done by fish gatter (448) but usually by river (437) g.v.; for machine washing, puts herrings into mouth of a cylinder through which fish passes, being cleaned by action of water and revolving brushes and falling into delivery troughs or baskets; starts or stops machines, as necessary, by pulley lever, and regulates flow of water; washes fruit (see making and fruit preserving); (i) washes apples, plums, etc., by hand; (ii) washes gooseberries in a "topping and tailing" machine; cf. fruit picker.

washer, meat, re-cleaner, meat.

washer, oranges; throws oranges into machine in which they are automatically washed with running water, and brushed by a revolving brush as they fall one by one down a spiral, into a delivery box; controls machine by moving a lever; removes filled delivery boxes and replaces empty ones.

washer, press cloth (sugar refining); washes by hand, in open vats or in revolving cylinder, operated by loose pulley lever, coarse dannel cloths in which dried pulp of beetroot is trapped, when being squeezed by hydraulic press; does other unskilled jobs, as required.

washer and chiller, fat (fat extracting and refining); washes by hand, in open vats, flesh, etc., from which edible fat is to be extracted, to cool it and to remove blood, etc., examines fat and cuts out blood tissues when found; lays out fat to dry.

washer's attendant (sugar refining); places bags in washing machine, and takes them out when washed; stacks wet bags and places wet filter cloths in baskets, under supervision of washhouse man or bag washer g.v. washer-out (sugar refining); treats certain kinds of sugar, after it has left centrifugal machine, by exposing to spray of air and water until sugar is completely conditioned; regulates force of spray by valve; above sugar beneath spray or pushes trays of sugar thereunder; or regulates speed of endless band conveying sugar.

wash-house man (sugar refining), see washer, bag.

washing tank attendant (margarine); runs hot water, soda and margarine oils into tank; allows mixture to settle and runs off the oil for margarine from top of the mixture; runs off, as waste, the water solution containing soaps and fatty acids removed from the margarine oil.

wash-up boy, see sample boy.

water boy (sugar refining); keeps water in liquor cooking tank at constant level by watching gauge and adjusting water cock.

weigher (bakery); (i) (hand) scaleman (bakery); cuts off and weighs pieces of dough according to size and weight of loaf required; roughly shapes pieces of dough and passes to moulder (433) g.v.; (ii) (machine) cuts piece of dough, and throws it into hopper of machine, which cuts it to required size for loaves; picks dough, thus cut, from delivery van of machine and passes it to table hands (439) g.v. for moulding; weighs samples from time to time and adjusts output of machine, if necessary, by means of a screw device, work is sometimes divided between two operatives.

weigher (biscuit making); (i) see mixing room worker; (ii) checks weight of filled tins of biscuits after packing; records weight on a label or slip, initials it, and passes on tin; returns tins to the operatives, over which he is to operate filling tin.

weigher (grain milling), see packer (grain milling).

weigher (sausage); receives filled casings from sausage filler (442) g.v.

and cuts them into 1 lb. lengths; checks weight on scale and breaks off "overweight" lengths.

weigher, starch; weighs out quantities of finished starch before packing into boxes or packets; is often done by starch box hand (340) g.v.

weigher (sweets); checker (sweets); (i) checks and weighs quantities of sweets made by piece workers; (ii) keeps a record of number and weight of boxes packed.

winner, cocoa bean; winnowing machine; winds cocoa (43) see sifter; (ii) feeds hopper of winnowing machine (which separates husk from crushed bean) with kibbled cocoa beans (see kibbler); regulates air blast attaches bags for winnowed nibs and also for receipt of husk; attends a number of such machines; sometimes does work of kibbler g.v.

winner, mustard; feeds by hand, with a shovel, hoppers of three or four winnowing machines, to remove husks from seeds; occasionally inspects to see that machines, which are power-driven, do not become choked, and are not brought to a stoppage; bags seeds and waste; on rare occasions, adjusts grinding rollers by hand, wheel, or other device, or stops machine by pulley lever and clears stoppage by hand.

winner, cocoa bean, see winner, cocoa bean.

wrapper, stick; wraps in paper, small technical blocks, partly evaporated starch preparatory to placing in hot-air stoves for further evaporation and crystallisation.

Sub-Order 2.—Makers of Drinks.

461.—FOREMAN AND OVER-LOOKERS.

foreman (cider making); supervises men engaged in cider making, see cider worker (458); starts and stops hydraulic press, in which pulp ("pomace") is crushed, by moving a lever; directs men engaged in loading and unloading press.

foreman maltster, head maltster; supervises work in malt house (452), floor-men (452), and maltsters (452) g.v.; allocates work in malt house, gives directions as to length of time barley is to be steeped, and malt is to be on floors or in kiln; is generally responsible (subject to general counsel of manager) for any defect in malt in malt house; sometimes also does work of kiln foreman g.v.

kiln foreman; under instructions from foreman maltster g.v., directs loading and unloading of kilns, and opens or shuts doors, windows, etc., to regulate heat of kiln; gives instructions to firemen (462) and kiln men (462) g.v. as to temperature to be maintained in kiln; under instructions from brewer (453) g.v., directs ton room men (459) g.v. as to control of temperature generated by fermentation in fermentation vessels, or regulates temperature by controlling flow of water into cooling vessels; prepares yeast for use or for storage for draining, etc., and is responsible for its condition.

vatting foreman; under instructions from brewer (453) g.v., directs (absent a rate of measures) the different kinds of beer to be run from different vats in mixing; is responsible for cleaning of vats.

462.—MALTSTERS.

fireman (malt kiln), fire (malt kiln); washes coxches (pieces above kiln) steeped in water; fires furnace of kiln, regulates draughts and temperatures, and is responsible for keeping fire regulated as directed by kiln foreman (461) g.v.; sometimes specifically designated, e.g. night fireman (see night shift).

floor and kiln man; combines duties of floorman *q.v.* and brewman *q.v.* **Floorman;** is in charge of a gang of labourers, who steep grain in a pit under his direction; supervises hoisting of steeped grain (after water is run off) on to granulating floor, where grain is spread evenly on floor and turned over constantly under his direction by same or another gang of labourers; decides when grain has reached required state of germination.

Kiln man; (i) (brewery or malt kiln), *see* brewman (malt kiln); (ii) (distillery) turns grain on a kiln above a kiln constantly, with a shovel, to ensure that it is all dried equally; usually also carries malt in sacks to kiln, empties it on floor above kiln, and replaces it after drying; sometimes also stacks dries of kiln.

Malt dryer; is in charge of a gang of labourers who sweep grain off germinating floor into drying room, placed immediately over a coal-fired kiln, where grain is turned over constantly, to allow heat from furnace to dry whole equally; supervises gang stacking furnace, turning grain and shovelling dried grain into sacks or travelling chute.

Malt maker; (i) *see* maltster; (ii) *see* malt man.

Malt man; malt maker; (i) general term for any worker in malt house, *e.g.* floorman, maltster, (ii) (distillery) is responsible for malting of barley for distillation of potable spirits; steeps barley in cistern; levels or combs grain on germinating floor; breaks down couch after barley has begun to grow, according to temperature and rate of growth, aerates and cools malt by turning with shovels or by ploughing with hand plough; sprinkles with water to assist growth when necessary.

Malt roaster; is in charge of a gang of labourers who empty malt from sacks, into gas-heated cylinders; moves a lever which causes cylinder to revolve slowly over gas jets; stops machinery, and turns out gas, when malt is considered to be roasted to correct degree, *e.g.* black, brown, crystal or amber, according to degree of roasting, as determined by foreman; supervises work of labourers who remove malt with wooden rakes, and load it, when it is cool, into sacks.

Maltster; malt maker; loads malt into kiln; spreads it out, to required depth, on asbestos floor of kiln, and turns it over from time to time to prevent "growing"; also stacks bags of barley into malt house, and stacks them.

Underhand maltster; assists maltster *q.v.* in loading and unloading of kiln, in spreading it out on floor of kiln, and in turning it over from time to time.

463.—BREWERS OF ALE, STOUT AND PORTER.

Assistant brewer; under direction of brewer *q.v.* and in consultation with foreman (451) *q.v.*, is responsible for brewing operations being properly carried on; undertakes gravity tests; sometimes keeps stock books, and works out costings of raw materials for various purposes.

Brewer; is in supreme control of entire series of brewing operations, assisted by assistant brewer *q.v.* and by chemist, bottling foreman, cooper (477) *q.v.*; supervises and directs assistant brewer; tastes beer, and either passes it or gives directions as to alteration of malt content, etc.; sometimes buys raw materials.

Fermenter (brewery); opens and closes cocks regulating flow of liquor from mash tins to a succession of fermenting tanks or tuns, in which brew is gradually changed by action of growing yeast; adds yeast, by hand, to liquor; takes frequent temperature readings during process of fermentation, and reports them to brewer *q.v.*; *cf.* fermenter (distillery) (458).

454.—DISTILLERS AND STILLMEN.

Ball man; *see* pot still man.

Patent still man; charges still with wash (fermented wort), which runs in through a series of pipes, controlled by valves, at outlet of distilling operations, after which it is automatically replenished; watches ingredients of still, *i.e.* wash, which are liable to overflow, owing to frothiness of overcharged wash; class tube indicator or safe to ensure that automatic replenishing apparatus is functioning properly; observes pressure of steam and regulates heat of still by opening and closing valve to admit or shut off steam; tests strength of spirits in sample safe, in presence of Excise Officer who seals safe; when distilling is not in progress, does cleaning and repair work.

Pot still man; ball man; charges pot still, which is heated by steam or by furnace, in presence of Excise Officer, either by gravitation or with hand pump; watches ingredients of still (wash), which are liable to overflow, owing to frothiness if overcharged, and regulates heat of still; judges state of wash by sound, by swinging a suspended ball against neck of still or by tapping with a wooden hammer; watches water beads in glass tube indicator or safe, to see whether all spirit has run off; occasionally turns tap to test accuracy of tube indicator (safe); when distilling is not in progress, does cleaning or repair work.

Still man; general term covering patent still man and pot still man *q.v.*; is sometimes able to attend both types of still.

465.—CELLARMEN.

Bottler; (i) (wine); wine cooper: fills wine bottles directly from cask by means of a cran (measure) tap inserted in it, or from syphon pipes fitted to a small trough into which wine is run, or by means of a rotary power-driven syphon machine; passes filled bottles to rotary table of corking machine; (ii) (spirits) fills bottles with spirits or liquors by means of the rotary machine, and passes filled bottles to corking machine.

Cellarman, cellarer; (i) looks after stock, bottles, casks, seals, etc., and fills, labels, and seals casks; keeps cellars within certain limits of temperature by heating and ventilating as necessary and keeps cellars and racks clean and free from damp, sees that wine receives careful handling and is in general ensures that wine is not spoiled in maturing; may also do work of reeving (469) and topman (456) *q.v.*; (ii) (in hotels, clubs, etc.) receives stores and tugs barrels of beer, etc.; stores and jasses wine and spirits, etc.; attends to beer engines, connecting engine to cask by pipes, as required.

Wine blender and taster; wine maker; blends wines, taking care not to mix those of widely differing chemical properties, or whose flavours will not harmonize; in small cellars, is sometimes employed part time in bottling, in packing, and in other duties of cellarman.

Wine cooper, see bottler; *cf.* cooper (477).

Wine mixer, see wine blender and taster.

466.—OTHER SKILLED WORKERS.

Als taster; tastes beer to sample it for quality, etc., before it leaves brewery, or if it is returned as unsatisfactory; usually done by brewer or assistant brewer (453) *q.v.*, or by a storekeeper (341).

Back room man (distillery), see fermenter (distillery).

Blender (mineral waters), see syrup maker.

Blender, spirits; mixes spirits according to quality, maturity, and strength, in order to produce required blend, by pouring or running prescribed quantities into vat; adds colouring liquid to must; adds it to mash vat by air-blast; runs out into cask.

Brewer (distillery); is in charge, under manager, of all operations incidental to making of crude spirit; is responsible for preliminary grinding and mixing, boiling and fermenting, *i.e.* the preparation of the distiller's wash; controls work of mash men, malt men, labourers, etc., in a distillery; sometimes also attends pot still, *see* pot still man (454); duties up to point of boiling in mash tank, or for brewer (brewery) (458).

Brewer, ginger beer, or for brewer, non-alcoholic.

Brewer, hop ale, or for brewer, non-alcoholic.

Brewer, non-alcoholic; a skilled expert, in charge of all brewing operations in caskery, including ginger beer, hop ale, British wines, fruit wines, or other non-alcoholic beverages as manufactured; superintends boiling of water, filling of vats with ingredients, *e.g.* ginger, hops, fruit juice, sugar, malt, spirit, colouring matter, as required, and running of water into vats; directs control of passage of mixture, after fermentation into a succession of tanks or vats.

Cider maker, cider worker; general terms for any worker engaged in one or more of the following operations: washing apples in a tank or bath; running in water and stirring apples in bath with a rod; starting and stopping dredger which picks up apples from bath and conveys them to cylinder, where they are reduced to pulp (pomace) by revolving steel knives in a pump; or starting a machine through which pomace falls on to table below; wrapping pomace in muslin cloths into rectangular slabs (cheeses); piling a number of cheeses on a table or truck up to desired height; at a signal from foreman (451) *q.v.*, in conjunction with another worker, pushing table or truck on to hydraulic press which is then set in motion by foreman and after juice has been extracted, pulling cheeses from hydraulic press and stacking them; washing, pre-malting, adding fining (clarifying agents) to cider in vats in quantities decided by manager; drawing off cider from one vat and running it through connecting pipe into another vat, leaving sediment in first, sometimes passing it through a filter of sieved cotton pulp or asbestos before it runs into second vat; keeping cider stores clean and at an even temperature, reporting to manager in event of any variation of temperature.

Composander, see syrup maker.

Composander of wines; is in charge of labourers who do certain work used for making British wines, by hand, to vats; supervises blending of wine, as required, and connection of casks to vats when wine is run off; supervises sealing out of vats and casks with hoppers and brods; *see* cooper (477).

Dried grange man; is in charge of a gang of labourers in a distillery who carry wet grain into room heated by steam (unless this is done by automatic conveying machinery); turns on cut of valve cocks admitting steam, and thereby regulates temperature of hot room, testing by thermometer; superintends labourers who shovel grain into sacks or carts after drying, for removal.

Engineer (erected water factory); person (erected or general water); is responsible for running of gas making plant consisting of (i) a generator in which carbonic acid gas is generated by action of sulphuric acid on

sodium bicarbonate or on calcium carbonate, (ii) a gas holder or cylinder, into which gas so generated passes automatically, and where pressure is automatically applied; (iii) a saturator, fitted with an agitator, or mixer, in which water is impregnated with carbonic acid gas; tips specified quantity of sodium bicarbonate into receiver of generating plant with a scoop; switches on or off power-drive of machinery, operates cocks, valves, and levers regulating supply of sulphuric acid, gas, and water, is also responsible for proper running of bottling plant.

fermenter (cider, ginger beer, etc.); controls fermentation of brew for ginger beer, etc., or fruit juices for cider, using a thermometer to test temperature, adds yeast and any colouring matter that may be required; (in case of ginger beer, etc.) is usually done by non-alcoholic brewer *q.v.*

fermenter, fermenting man, *distillery*; *back room man*, *tun man*, *dun room man*, *washer* (*distillery*); works at mash tuns and "wash backs" at distillery; operates, as directed by brewer (453) *q.v.*, apparatus for mashing grain, for mashing wort from successive mashings, for souring wort and "pitching" with yeast, for adjusting temperatures of liquors in vats, and for mixing wash from various backs in chaper; generally assists brewer in preparing wash for distillation of potable spirits, also in cleaning and discharging of apparatus; *cf.* fermenter (*brewery*) (453).

finings man, *see top man*.

fruit essence maker; a qualified chemist who, with aid of unskilled labour, makes fruit essences by adding concentrates of fresh fruits (obtained by expression) to alcohol, by fractional distillation of essential oils, or by extracting oil from lemon and orange rind by percolation process; for artificial essences, works by synthetic processes.

fruit juice and syrup maker; *syrup maker*; (i) (not for fruit) makes juice expressed from fruit with sugar, or marmalade, etc., with sugar to extract their juice and sweeten it; (ii) (hot process) pours a syrup, made scalding hot, over fruit in bottles and corks them immediately; in either process adds acetic or citric acid to prevent caking, and sulphate of potassium or lime to prevent fermentation.

gasmann (aerated or mineral waters); *see engineer* (aerated water factory); *cf.* *gasmann* (459).

grinder, malt grinder, *see miller*.

herb beer maker, *herbal extract maker*, *hop extract maker*, *as for brewer*, non-alcoholic maker; a non-alcoholic brewer *q.v.* or a *syrup maker* *q.v.* engaged in manufacture of lime juice cordial; instructs assistants as to boiling of sugar, addition of lime or lemon juice and preservatives, and addition of flavouring and colouring matter.

malt crusher, *see miller*.

meashman, *mash house man*, *mash room man*, *mash tun man* (*brewery*); controls, by means of levers, in co-operation with miller *q.v.*, flow of malt from milling machine into mashing machine, a contrivance fitted to end of grain-mill spout, turns on supply of water, which is churned up and mixed with malt in mashing machine, the mixture then running into mash tun or tuns in a "mash"; of the consistency of thick soup; decides when brewing process, i.e. a natural process which goes on in mash tuns, is complete; then opens, by means of levers and cocks, in co-operation with side man *q.v.*, sluices which conduct liquor, now called wort, to boiling copper; in small breweries, sometimes also does work of side man *q.v.*

millier, malt miller, malt millman; *grinder*, malt crusher, malt grinder; in *brewery* or *malster's factory*, (i) is in charge of a large mill, into which malt runs automatically through a hopper, from a store room at top of building; controls amount of malt entering mill by mechanically-operated gauges; (ii) (in small establishments) feeds machine with a shovel; in all establishments, malt then passes through a succession of rollers and screens, which reduce it to required degree of fineness; examines malt at intervals to ascertain whether rollers are functioning correctly, and adjusts rollers, by levers, to obtain requisite fineness; also manipulates slides, which control flow of ground malt to various chutes or channels, as required; in *breweries*, malt eventually runs into mashing machine, connected with mashing tun or tuns on ground floor of building.

pertryman, *as for cider worker*.

pop maker; slang term for any person employed in manufacture of ginger beer, including non-alcoholic brewer, and unskilled assistants who clean tanks, bottle and label beverage.

rack maker; "racks" or runs *beer* from main lube bottling machine, connects up pipes and works pump, if necessary.

sarsaparilla maker; extracts, by crushing and steeping, syrup from roots of *sarsaparilla*, used as a medicinal drink; usually done by non-alcoholic brewer *q.v.*

side man, *copper side man*; receives beer from hop room man (459) *q.v.* and shovels them into boiling copper; in co-operation with mash man *q.v.*, controls, by means of cocks and valves, sluices which allow wort to run from mash tun into copper; sees that mixture is boiled properly in copper in small breweries, sometimes also does work of hop room man (459), *mash man*, or *hearth man* (459) *q.v.* or combines several of these occupations.

smeller, *cask smeller*; smells returned and cleaned casks to make certain that they are sweet before hoops are finally driven on.

syrup maker; *blender* (*mineral waters*), *compounder*; (i) dissolves sugar in water to certain specific gravity, and adds essence and other ingredients according to a fixed formula; filters syrup through a bag (into enamel pan, from which it passes by glass pipes to syringing machine); (ii) (more usually) superheats boiling of sugar in steam-heated boilers; directs assistants as to addition of lime or lemon juice, preservatives, flavouring and colouring matter, or other ingredients; decides when boiling process is complete, and directs running of mixture into storage tanks; (iii) *see fruit juice and syrup maker*.

topman, *topper-up*; *finings man*, *treater*; mixes "finings" (inglams, etc. used to clarify beer by precipitating impurities) according to formula, as required; goes round from cask to cask, and pours into each a specific quantity of "finings" mixture.

treater, *see topman*.

tun man (*distillery*), *see fermenter* (*distillery*).

tunner; opens, by hand, cocks or valves which allow liquor to run from one set of vessels to another, *e.g.* from fermenting vessels to unions or denning vessels; takes temperature readings from time to time, and reports readings to brewer (453) *q.v.*; sometimes also washes out tuns.

tun room man (*distillery*), *see fermenter* (*distillery*).

washer (*distillery*), *see fermenter* (*distillery*).

wine blender (*medicated wines*); directs cellarman (455) *q.v.* in filling and racking wine, also in mixing (by hand, in a vessel) and adding to wine,

substance which medicates wine without reacting adversely upon meat extract, malt, etc., when these are added; directs cellarman engaged in working pumps and filters, etc., for addition of meat extract, malt, or other substance.

456.—OTHER WORKERS.

allowance man (*brewery*); *cellarman* man; keeps free allowance of beer to dry men, travellers, etc., on production of chit; at certain times of dry fills buckets for regular brewery workers' allowance; keeps canteen clean.

barley carrier; carries barley in sacks or in barrows from grain storehouse to malt-house, or to vehicles for transit.

barley room man; unloads barley, screens it, and places it in cistern for steeping; may do any labouring work connected with handling of barley.

bottle examiner; *nighter*; (i) ascertainment that empty bottles are free from cracks by gently knocking them together, and that they are clean by holding them to the light and by smelling them; extracts pieces of cork, etc., with steel hook; (ii) examines filled bottles of spirits, mineral waters, etc., after labelling, capsuling, and polishing, by holding them up to the light; rejects those which show defects, *bottle soiler*; (i) *see capper*; (ii) *see wiper*.

bottler, *bottle filler*; (i) (without pressure) runs beer from barrel into a small trough fitted with a series of syphon pipes, from which he fills bottles; (ii) (under pressure) uses power-driven machine which forces beer into bottles; connects bottling machine with harrel by rubber hose; places clean empty bottles on revolving table of machine, and removes filled bottles; sometimes specifically designated, *e.g.* *beer bottler*, *cider bottler*, *cf.* *bottler* (*aerated or mineral waters*).

bottler (*aerated or mineral waters*); puts empty bottles or syphons, or bottles or syphons containing a little syrup, on rotating machine, which carries them behind a screen or card, where carbonic acid gas and water are forced into them under pressure; removes bottles or syphons when filled, and puts them on a rack, ready for corker or crown corker *q.v.* *bottle ringer*; *stopper ringer*; *amine*; rubber ring or bobbin stoppers, and replaces them when they are broken or worn; is sometimes employed part-time in bottle filling or other duties.

brander; brands barrels with name of firm, destination, etc., by inserting name-plate in head press, heated over (which he stokes) and placing lid of harrel in contact with heated plate and subjecting it to pressure; also "bushes" barrels, i.e. drills holes in barrels, and beats metal ring for hang-hole; sometimes also weighs new or repaired barrels, hush empty and filled, and records their capacity.

breaker-down; a *tun house man* *q.v.* who adds cold (beiled) water to beer, with a hose, to bring it to required gravity, if after brewing it is found to be over fermented strength.

brewer's assistant (*non-alcoholic*); receives instructions from non-alcoholic brewer (459) *q.v.* as to amount of each ingredient, *e.g.* sugar, ginger, hops, malt, colouring matter, etc., to be used; fetches ingredients from store, and supplies them into vats, boiling copper, or other vessels; opens sluice valves and cocks allowing mixture to pass from one vat or other vessel to another; cleans out vats and coppers when empty; skims off froth from surface of mixture with a skimmer; "dunks" mixture after fermentation, if required, i.e. adds water thereto.

brusher-out, *cask brusher-out*, *see washer*, *barrel*.

teenster man, *see allowance man*.

capper, bottle; *capsuler, bottle*
feiler; fixes a small paper, tin, or
 lead foil cover over corks of bottles
 filled with aerated water, wine, etc.,
 by hand or by power-driven auto-
 matic or treadle-operated machine.
carbonator; *purson (breweries)*; is in
 charge of closed tanks into which beer
 is run in preparation for bottling;
 runs a specified quantity of carbonic
 acid gas, in solution, into beer; keeps
 tanks clean; in small breweries, some-
 times directs bottlers *g.v.*, or does
 bottling.

cask measurer; measures capacity of
 barrels, either by filling them with
 liquor from graduated vessels, or by
 weighing them, both empty and filled,
 and calculating volume from net
 weight; so ascertained, sometimes, at
 busy times, employed on cask washing;
 work usually done by *brander g.v.*
toak roller, see washer, barrel.

cask roller, cask stacker, see runner-in.

teak stacker, see washer, barrel.

cellarwoman; does lighter work in
 cellar, such as labelling, capping,
 and wrapping of bottles.

cleaner, barley, see screener.

cleaner, cask; cleans deposit from
 sides and bottoms of casks by scoring
 them, by hand, with brushes, or in a
 revolving frame, which rotates
 them one way while a rope chain
 rotates the reverse way inside them;
 (for *small casks*) after scouring, puts
 a small quantity of sulphur in casks
 to sterilize them, and to check exces-
 sive fermentation when they are
 refilled.

cleaner, syphon; cleans and polishes
 metal parts of syphons by hand or with
 a buffing machine; is sometimes em-
 ployed part-time on other work, *e.g.*
 washing bottles.

clipper; small clips to wine casks for
 holding corks; is usually employed part
 time in other work.

corker; cork filler; drives corks into
 bottles filled with beer, mineral
 waters, etc., by hand, or by machine
 which is loaded with cork and operates
 by treadle, or, in bottling spirits, by
 an automatic rotary machine; is
 usually employed part time in bottling,
 in washing bottles, etc.

corker, crown; puts bottles in place
 in power-driven machine, *i.e.* a section
 of bottling machine, fitted with
 automatic plunger, moves lever
 causing plunger to come down and
 press tin caps, lined with cork, on to
 mouths of bottles, and close them over
 cuna, thereby clamping them on; re-
 moves closed bottle to rack, ready for
 labeller (349) *g.v.*

cork fitter, see corker.

draff man, see grainman.

drainer, cask drainer; a cask washer
g.v. who drains out returned casks
 after they have been cleaned with hot
 water; stacks them in readiness for re-
 filling.

draw-off; racker; pumps, or draws
 off, beer, spirits, cider, etc., from fer-
 menting vessels, blending vats,
 usually by treading, tap which allows
 liquor to flow through pipes; in
 breweries, draws a few dry hops into
 cask after it is full.

filler, bottles, see bottler.

filler, syphon, at for bottler.

gasman (breweries), see carbonator;
cf. gasman (brewed or mineral waters)
 (458).

grainman, grainier, grainman;
*draffman, thrasher (brewery or distil-
 lery)* removes used malt, or grains,
 from mash tun, shovelling it into
 carts for taking away for cattle feed-
 ing; *cf. grainman* (775).

hearth man; stacks furnace at base
 of brewery chimneys containing water,
 hops, and "wort" (product of mash
 tun); sometimes also takes note of
 gauges whereby supply of water to
 coppers for used brew is measured.

hopper; pours dried hops through a
 funnel into casks for storage; is
 usually employed part time on other
 duties.

hop room man, hop room hand; is
 in charge of a room where hops are
 stored; weighs out amount of hops
 required, which varies according to
 particular brew desired, and hands
 them out in sacks to copper side man
 (458) *g.v.*

labourer; loads and unloads raw
 materials, or manufactured or semi-
 manufactured products; assists
 skilled men in unskilled part of manu-
 facturing processes; washes casks,
 vats, tuns, or other receptacles, or
 apparatus; sweeps yard, cleans floors,
 and does any other unskilled work in
 brewery, distillery, malthouse,
 mineral water factory, etc.; often
 specifically designated according to
 department, *e.g.* the stores labourer,
 brewer's labourer, laboratory labourer,
 lager cask labourer, labourer on load-
 ing stage, etc.

loader; loads barley or other materials
 into silos; loads raw materials or
 manufactured products into carts,
 drays, railway wagons, etc.; often
 specifically designated according to
 article loaded, *e.g.* ale loader.
malt room man; weighs in vats,
 recording quantities admitted to malt
 mill; transfers malt to grinding mill;
 sometimes also acts as miller (455)
g.v.

marker, cask marker; paints letters
 or other marks indicating contents on
 head of casks, with stencil plates and
 paints; is often engaged part time in
 other duties, *e.g.* cleaning casks,
 running errands, or as a runner *g.v.*
presser, harm; peat presser; screws
 up receptacles into which yeast or
 harm, run or skimmed off surface of
 fermenting vats or tuns, has flowed,
 is then manipulated wheel or
 screw, thus squeezing "harm" out
 from yeast, scum up yeast, when
 process is complete, and loads it into
 casks for removal.

presser, hop; shovels hops into press,
 and moves levers which bring press
 into action and squeeze remaining
 liquid out of hops after they have been
 boiled; liquor runs through pipes into
 containers.

presser, yeast, see presser, harm.

racker, see draw-off.

receiver, barley; trucks sacks of
 barley into barley store, and trucks
 them from store to malthouse as re-
 quired.

receiver, malt; receives, in brewery,
 malt from malt house, or from
 separate establishment, in sacks,
 which are hoisted to upper part of
 building; empties sacks on to floor of
 malt room, and shovels it, as required,
 into hoppers which convey it to tuns
 or vats below.

reiner; pours resin from a ladle on to
 bung of barrels to seal them; is
 usually employed part time on other
 duties in cellars, *e.g.* cleaning, etc.

runner-in; coal roller, cask stacker,
stacker; rolls barrels to and from
 cellars; stacks barrels, removed from
 drays, until required for further use,
 takes barrels from stack to be washed.

screener, barley screener; barley
cleaner; (i) shovels barley or malt into
 hopper or chute of machine which
 passes it through screen or sieve, to
 remove unduly large grains, small corn,
 dust, or other foreign matter; (ii) is
 in charge of automatic machine which
 sifts barley or malt, as described
 properly, and operates, if necessary,
 slide bars or shutters which direct
 screened barley or malt from one
 channel to another.

screener, malt, see for screener.

screwier; puts screw stoppers in
 bottles, etc., after they have been
 filled, by hand or machine; is usually
 employed part time in bottling, in
 washing bottles, etc.

sighter, see bottle examiner.

snow remover; removes deposits of
 frost or moisture from pipes, etc., of
 cold storage plant; is usually em-
 ployed part of his time on other work.

sput man (distillery); backs sacks
 on to spout or chute down which dried
 grain pours, and removes sacks when
 full.

square room hand, see tun house

man; stacker; wheeler and stacker; (i)
 trucks and stacks cases of bottled
 beer, etc., ready for dispatch; assists
 in loading and unloading of vans; (ii)
see runner-in.

still house man, still room man;
 under direction of distiller (454) *g.v.*,
 attends to cocks regulating flow of
 wash to still, circulation of "low"
 wine (first distillation), and drawing-
 off of fractions of distillate.

stopper picker; stopper sorter; un-
 screws stoppers from empty bottles
 returned to bottling firms; examines
 them, and rejects those that are de-
 fective; often also acts as bottle
 ringer *g.v.*

stopper ringer, see bottle ringer.

stopper sorter, see stopper picker.

stower; an ale stores labourer *g.v.*

syrupier; pushes neck of bottle on to
 a nozzle connected with a tank con-
 taining flavouring syrup; raises
 nozzle, causing a specific quantity of
 syrup to run into bottle, and puts
 bottle on a rack for bottler
 (soured or mineral waters) *g.v.*

thrower, see grainman.

tierman; a stower g.v. who arranges
 casks in tiers.

tun house man, tun room man, tun
room hand; stores room hand, union
 room hand, various, *valder*; is en-
 gaged in room wherein brew is passed
 through a series of tuns, or vats, con-
 nected by unions or large pipes;
 assists fermenter (brewery) (453) *g.v.*
 in adding yeast to worts, checking
 temperature, and watching fermenta-
 tion of brew; also cleans out empty
 tuns with water and brushes; some-
 times also skins growing yeast from
 surface of brew with a wooden float;
 sometimes throws out spent grain
 from bottom of mash tuns, with
 shovels; does other work in other
 parts of brewery.

union room hand, vatman, vatter,

see tun house man.

washer, barrel; cask washer, cask
feiler; (i) *cask washer;* rolls barrels
 to feed end of washing machine; in-
 serts a roller spray into bung hole;
 stands by to guide barrel, if ne-
 cessary, as they pass through machine;
 starts and stops machine by moving
 a lever; turns water and steam on or
 off, as required; (ii) *cleans barrels* by
 pouring water and slops into them,
 clamping them to revolving platform,
 and switching on power, barrels
 rotate, and are cleansed by water and
 slops tumbling about inside them;
 (iii) *brushes-out, cask brusher-out;*
 (partly) removes tops of barrels, and
 scrubs inside surfaces by hand; (iv)
wheeler and stacker, see stacker.

wirer, cork wirer; bottle feiler;
 wires corks of bottled beer, wines,
 mineral waters, etc., often also wraps
 metal foil round top of bottles.

yeast man, yeast house man;
 handles yeast in yeast bins room;
 in preparation for use; drains it, and
 sometimes squeezes it in press to
 expel moisture.

Sub-Order 3.—Makers of Tobacco, Cigars, Cigarettes, Snuff.

468.—SKILLED WORKERS.

heater-up, tobacco heater-up, see
moulder, tobacco (hand); cf. tobacco
heater-up (469).

blender, leaf; unpacks tobacco leaf
 from bales in which it was imported,
 and examines contents, to ensure that
 contents are of type of quality speci-
 fied; sometimes steams leaf, to restore
 it after pressure of packing, by plac-
 ing it in steam cupboard, turning on
 steam, and removing it after specified
 time; spreads leaf on trays, and picks
 out any leaves that are defective or

unsuitable for desired blend; weighs out exact quantities of each kind of leaf, according to the formula, mixes them together with his hands, and puts blend in baskets; sprinkles water containing acetic acid (as a preservative) on tobacco, in blending, with a rose spray attached to a hose, or with a brush or switch.

bunch maker, cheroot; a bunch maker (cigar) *q.v.* employed in manufacture of cigars open at both ends. **bunch maker (cigar);** forms core, or bunch, of cigars, places in hand pieces of filler tobacco (broken or inferior leaf), so arranged as to produce, roughly, desired shape and size of cigar, and puts this tobacco on a bunch or bunch wrapper of better and stronger leaf and rolls up the filler into a bunch and passes to roller *q.v.*; frequently uses a small machine, see cigar machinist.

bundler; cigar packer, cigar sorter, *sorter*; grades finished cigars, picking out those of similar colour, and lays them in boxes, either loose, or tied in bundles; sometimes also places them in a drying room of even temperature to condition them before sale.

cake and plug maker; plug maker, tobacco press filler; makes plug, bar, cake and other hard tobacco, or stemming, and partially drying, loose leaf to conditions in treating it with flavouring agents if required, moulding in metal frames, and pressing it in hydraulic or screw presses, first wrapping it in an outer cover of whole leaf when making certain kinds of plug.

cayendish maker; soatters tobacco leaf on floor of bench; makes up a solution of sugar, of prescribed strength, and sprays leaf therewith, leaving leaf in bed until it has reached required condition; then puts it in a box, sometimes first pressing it in a hydraulic press.

cheroot maker; makes cheroots, *i.e.* cigars open at both ends; bunches inside leaf, and sometimes with wrapper leaf; operations *q.v.* for cigar maker with exception of shaping.

cigarette machine attendant, cigarette machine operator; cigarette maker (machine); keeps bopper of cigarette machine replenished with tobacco; places bobbin of cigarette paper, and also another of cork (for cork tips), if necessary, in machine; fills gum receptacle; engages pulley to start machine, which automatically draws tobacco through machine and wraps it in paper in continuous "tube" form, one, or a few, tips being stuck on at intervals; tube of wrapped tobacco is cut at intervals by machine; pulls away cigarettes in event of machine becoming jammed; sometimes also sharpens blade of cutting apparatus by running a bone along it from time to time.

cigarette maker; (i) (hand push worker) push worker; rolls tobacco in small pieces of parchment, inserts end of parchment in end of paper sheath or "sill," and then pulls tobacco from tube to the other with a pencil-shaped stick; cuts off tobacco, protruding at each end, with scissors; tips cigarette with cork or gold, if necessary; **(ii)** (hand, roller) places cigarette paper on small piece of parchment, arranges tobacco on paper, rolls cigarette and gums down edge of paper; **(iii)** (machine), see cigarette machine attendant.

cigar examiner, see cigar passer.

cigar finisher, see roller.

cigar machinist; a bunch maker (cigar) *q.v.* using a small machine.

cigar maker (hand); makes cigars throughout; rolls a core, or bunch, of filler, *i.e.* broken leaf, to form required size and shape of cigar; arranges core in an inner cover, *i.e.* binder, or bunch wrapper, and an outer cover *i.e.* wrapper, made of best leaf; wraps and sticks down outer cover round bunch spirally from thick end to point, with gum tragacanth and passes to bundler *q.v.*

cigar maker (moulded); or for cigar maker (hand) except that he also shapes cigar in a mould, see moulder, cigar.

cigar packer, see bundler.

cigar passer; cigar examiner; examines finished cigars, rejecting faulty ones, weighs samples to ascertain that right amount of leaf is used for one cigar.

corder, roll; cake corder, see spinner (roll and cake).

cutter, tobacco; flake cutter; sets guillotine knife of cutting machine to cut leaf coarse or fine, as desired; replunged by sharp knife every few minutes; arranges tobacco leaf lengthwise, and places a quantity in cutting machine, where it is gripped and passed under guillotine, engages driving pulley to start machine; sometimes works part-time as stover *q.v.*

feeder, dryer's; drying machine, feeder, storing machine feeder; feeds drying or storing machine with leaf which has been cut by tobacco cutter *q.v.* starts machine by moving a switch or lever; regulates steam or gas heating, and regulates special devices on machine, *e.g.* valve governing fine spray (fog) which restores moisture to tobacco, if rendered too dry in heating. **flattener, cigarette flat worker;** a cigarette maker (hand push worker) *q.v.* or a cigarette maker (hand roller) *q.v.* who makes oral cigarettes.

leaf damper, see liquorer, tobacco.

leaf opener; removes tobacco from bales, and prepares leaves for stamping by wetting leaf which is bound round each hand or bundle of leaves, and opening out or separating the leaves in the bundle. **leaf watter, see liquorer, tobacco.**

liquorer, tobacco; leaf damper, leaf watter; (i) takes leaves from bales in which they are imported; sprays them out; sprays them with water from a hand syringe, or places them in liquoring machine, turns on spray, and removes them when liquoring process is complete; stands them in trays to become supple enough for handling; (ii) receives leaves from leaf blender *q.v.* and sprays them with hand syringe, or immerses them in a tank to make them pliable for stripping; sometimes also does work of stripper *q.v.* in smaller workshops, where it is usually done by leaf blender *q.v.* **moulder, elger;** makes moulded cigars by gathering leaves to form a bunch, see bunch maker, and placing it in shaped recesses in press blocks; puts in hand press, until set, removing arrangement in press blocks to avoid ridges; then covers with wrapper leaves, see roller.

moulder, tobacco (hand); beater-up, tobacco beater-up; places mould of desired shape in hand press, or in pulley or treading, to prepare it for being put up in small packages; usually completes moulding process in a hydraulic press, *cf.* press hand.

panner, tobacco panner, see stover.

plug maker, see cake and plug maker. **press hand;** attends a number of hydraulic or (rarely) hand press; receives rolls of plug from stover and plug maker *q.v.* and parks them in layers between metal plates of presses; then switches on hydraulic power, or applies pressure by turning hand screw; removes from press when tobacco reaches certain colour; scoops nicotine, *sic*, pressed from tobacco, from receptacle at bottom of press.

push worker; (i) see cigarette maker (hand, push worker); **(ii)** (less usual) works at certain simple types of work by pulley or treading, pushing in tobacco, which is met by paper and rolled with it into cigarettes; *cf.* cigarette machine operator.

roller, cigar roller; rigar finisher, cusa wrapper of cigar from leaves, rolls it round bunch, made by bunch maker *q.v.*, and finishes point by sticking with gum tragacanth.

roll maker-off, roll, turner-off, tobacco turner-off; former-off, tobacco leaf, and twists it, by hand, into a rough rope of sufficient thickness to yield roll of desired size after passing through machine; switches on power-drive of roll-making machine, and passes rough rope of tobacco into it; is assisted by an apprentice or other worker, who feeds machine with wrapper leaf, with which roll is covered as it passes through machine, often also does work of spinner (roll or cake) *q.v.*

snuff grinder; grind up, in a disintegrating machine, fermented leaves, stalks and "small" of tobacco plant, to make snuff; sifts and re-grinds; passes back to snuff maker *q.v.* for further fermentation; sometimes fixes or treats material on gas-heated table before grinding.

snuff finisher; finishes leaves, stalks and "small" of tobacco in wooden bin; adds water and salt solution, amount being limited by law; watches fermentation (which lasts for several weeks), turning mass occasionally, until temperature exceeds 130° F. then passes tobacco on to snuff grinder *q.v.*

sorter, cigar sorter, see bundler.

sorter, leaf; (in cigar making) sorts tobacco leaf according to colour, and (for cigar wrapper leaf) according to size.

spinner (roll and cake); cake corder, roll, corder; operates spinning machine used for making tobacco into a larger and more compressed roll, *e.g.* for Irish plug; winds rolls made by roll maker-off *q.v.*, on to a spool, and passes ends between rollers of spinning machine; also feeds rollers with a heap of cord from a bobbin on machine as machine winds or coils heap cord round roll of tobacco, inserts leather plugs into coil to compress mass and make it harder; leaves cord round coil until tobacco becomes sufficiently dark; starts and stops machine by pulling a lever; often also does work of maker-off *q.v.*

spinner's assistant; prepares leaves for spinning *q.v.* by cutting and bunching, and hands them to him for use.

stover, tobacco stover; panner, tobacco dryer, tobacco panner; places machine-cut, stripped leaf upon a gas-heated pan, to separate cut fibres, and aids separation and conditioning by teasing out tobacco; when operation is complete, places leaf on canvas beneath which current of air passes to cool it; sifts dust, etc., from tobacco after cooling.

stripper, tobacco; tobacco leaf, after liquoring, makes an incision and removes mid rib or stalk from tobacco leaf without abrasion of surface, usually by hand, but sometimes by placing leaves in position and setting slots of a machine, and setting machine in motion by pressing a treadle or engaging a driving pulley; often also does work of tobacco liquorer *q.v.*

table worker; general term covering any person who works on tobacco or cigars; includes cigarette, working shapes cigar, and working shapes as a habit, including bunch maker, bundler, cigar maker, cigar finisher, cigar roller, cigarette maker, cutter-off *q.v.*

tobacco dryer, see stover.

tobacco press filler, see cake and plug maker.

turner-off, roll turner-off, tobacco turner-off, see roller, tobacco turner-off; (i) makes small cheroots or "whiffs" operations as for cheroot maker except that work is less exact; **(ii)** as for cigarette maker (hand, roller) except that leaf is substituted for paper for outer cover.

469.—OTHER WORKERS.

hander (cigars): cigar blander, cigar ringer, ringer (cigar); wraps round centre of cigar a paper ring or band, bearing identification marks of brand; fastens band with gum.

bulker: stacks leaf tobacco, when moistened by tobacco liquor (469) g.v. on special floor for maturing.

catcher, cigarette catcher: cigarette machine receiver; gathers finished cigarettes from cigarette machine; weighs a given quantity from time to time to see that machine is maintaining standard weight; stacks cigarettes on racks ready for packing; throws out imperfect ones.

cigarette machine feeder: lays tobacco on travelling band of cigarette making machine, or in hopper which feeds machine automatically.

cigarette machine packer, see catcher.

coach boy: wheels trucks of cigarettes from machines to storage racks.

cut-off, cigarette cut-off: cuts off, with scissors, loose ends of tobacco from hand-made cigarettes.

hoghead opener, see leaf room man.

labeller, cigar, see bander (cigar).

leaf room man: *hoghead opener*; opens hogheads of tobacco and checks weight of contents.

picker-up: removes matured tobacco leaf from stacks made by bulker g.v., using a three-pronged fork to patch the leaves into barrows for transport to cutting machines.

ringer (cigar): cigar ringer, see bander (cigar).

scaleman, see weigher.

tobacco beater-up, see tobacco machine packer; cf. tobacco beater-up (468).

tobacco cutting machine feeder: *tobacco filler-up*; assists tobacco cutter (466) g.v. by feeding leaf into cutting machine.

tobacco feeder-up, see tobacco machine weigher.

tobacco filler-up, see tobacco cutting machine feeder.

tobacco layer-out: *tobacco spreader*, assists stower (468) g.v. in spreading dried tobacco thinly on canvas trays to cool.

tobacco machine packer: tobacco beater-up; places packing paper on travelling band of packing machine, to meet tobacco travelling from tobacco machine weigher g.v.

tobacco machine weigher: tobacco feeder-up; weighs tobacco, and places it on travelling band of packing machine for packing.

tobacco spreader, see tobacco layer-out.

weigher: *scaleman*; weighs out tobacco in a bonded warehouse, in the presence of a revenue officer, before distribution to various departments.

ORDER XV.—WORKERS IN WOOD AND FURNITURE.

Sub-Order 1.—Workers in Wood.

471.—FOREMAN AND OVER-LOOKERS.

carpenter charge band, foreman carpenter: supervises carpenters (474) g.v. engaged on a job, or on how to work it to be carried out, and is responsible to general foreman of the works or building in progress for efficient performance of work; sets out dimensions of wood work by measurement from plans or working drawings; indicates position of roof timbering, joists, door or window openings, skirting and similar work.

foreman cooper: (i) see master cooper; (ii) see shop foreman (cooperage).

foreman joiner: is in charge of a number of joiners (474) g.v. engaged on a job or in a joinery workshop; gives measurements and dimensions, or makes drawings from which joiners

work; if working in machine shop, supervises progress of machined work through to joiners for final handling. ascertains quantities of materials required and places orders through employees.

forewoman: supervises women and girls in making or finishing joiners' show cases and other small wooden articles in a shop fitting workshop; responsible for efficient performance of work.

head trimmer (cooperage): works with trimmers (477) g.v. and is responsible to master cooper or shop foreman g.v. for their work.

master cooper: foreman cooper; takes general charge of coopers (477) g.v. working in a cooperage, brewery, distillery, etc., and is responsible for efficient performance of work, both new and repair; estimates for and orders materials, machines, etc.; recommends or engages and discharges coopers; directs shop foreman and head trimmer g.v. or trimmers (477) g.v.; may also direct yard labourers in unloading, stacking and washing of barrels.

pattern shop foreman: is in charge of shop in which patterns, for use of moulders (480) g.v., are made; studies office drawings; gives instructions as to how patterns are to be made, and supervises work of pattern shop generally.

setter-out: prepares from plans, working drawings and instructions for guidance of wood machinists (486) g.v. at bench hand marks out drawings on boards or on paper, and transfers them to material, so that machinists can follow lines marked out.

shop foreman (cooperage): foreman cooper; supervises work of coopers (477) g.v. employed in making or repairing casks, barrels, etc., under instructions from master cooper g.v.

timber inspector (not a railway servant): supervises timber selector (488) g.v. and checks his work.

yard foreman: is responsible for movement of timber in and out of saw mill, for loading and unloading of timber trolleys and for stacking of timber in yard, drying sheds, etc.; supervises labourers engaged on this work.

472.—BASKET MAKERS.

basket chair maker, as for wicker furniture maker.

basket handle maker: a basket maker g.v. who makes handles for baskets, by weaving split cane or willow round a stake or willow rod.

basket maker: (i) makes baskets, hampers, wicker furniture, and other basket ware, by hand, throughout; builds framework of willow rods, and weaves cane, osier, twigs, etc., thereupon; uses hand knife for trimming, commander, i.e. an iron tool with ring or hook at end for straightening cane, small splitting tool called "sheave" and "upright" for cutting strips from cane, a cleaver, i.e. a tool having cross cutting knives for cutting or clearing cane into four sections; hammer and mallet and humpen barber for heating cane, to facilitate its bending or shaping; cools cane by plunging it into water; (ii) general term for any worker engaged in any process of making baskets, wicker furniture, or other basket ware, where work is sectionalised.

basket picker, basket trimmer; trimmer: cuts off pointed ends and pieces with a knife, and trims basket generally.

basinette body maker, basinette maker, bath chair maker (wicker), as for wicker furniture maker.

basinette maker (straw): line maker (straw) *straw maker*; weaves straw plait through a conical structure of osier rods to make bassinets.

blind maker, cane blind maker: weaves cane together by hand, using band tools, to make blinds;

beats cane in bannan burner for bending purposes, if required, binds parts together with cane strip; varnishes by hand with a brush.

body maker, cane; wicker body maker: *straw maker*, *perambulator*, *toy*, etc.), as for wicker furniture maker.

bottomer, chair bottomer, seat bottomer (cane): *chair corner*, *chair under*; weaves split cane (sided or upright), by hand, into seats or backs of wooden framed chairs, uses Bradawl for clearing holes in wood-work and knife for pulling cane through mesh and cutting off loose ends; burns splitters, etc. from under side of work with bannan burner.

braider: *plait*, *twist*, and knots an ornamental braid of grass, reed, rush, straw, or twigs for decoration of basket ware by hand; sometimes also makes up these braids, see plaiter; sometimes specifically designated, e.g. reed braider, rush braider, sedge braider.

cane worker, cane weaver, cane; a weaver g.v. working in cane.

chair caner, see bottomer.

chair filler-up (cane): *filler*, *filler-in*, (cane); a cane worker g.v. who fills up, by hand, spaces in cane furniture left by basket maker or wicker furniture maker g.v.; threads strips of split cane or willow rods or rushes into framework of furniture, using a knife and Bradawl; cf. weaver.

chair maker (cane), a cane worker g.v. who makes cane chairs throughout by hand; uses bannan burner for heating and bending cane, commander, i.e. iron hook, for straightening cane, bodkins of various sizes for use in weaving, hammer, mallet and small cutting or stripping tools, for cutting lengths and sections as required.

chair mender: *chair ruler*, *chair seater*; weaves rushes, by hand, into chair seats or frames using a wooden block for knocking or smoothing work during and after weaving process.

chair mender (cane); a cane worker g.v., often itinerant, who repairs and removes seats and backs of cane chairs, or broken filling and supports, by re-weaving and substituting new rods, where necessary.

chair ruler, see chair mender.

chair seater: (i) (cane) see bottomer;

(ii) (rush) see chair mender.

chair willower, as for chair filler-up (cane).

chisel basket maker, punnet maker: plait twigs, by hand, in wooden mould or block, narrow strips of shavings of thin wood to make punnets or chip baskets; places strips of material, in star pattern, on base of block, bending material at right angles to form sides of article; inter-weaves narrower strips of material into sides so formed; fixes rims and sometimes handles, to punnets or baskets, using same material, *lass sewing* or *web* wire stitching machine.

collar maker, as for basket maker.

collar maker (rush or sedge): (i) plait or weaves rush or sedge, by hand, into horse collars; (ii) attaches rush work to outside of horse collars by sewing or lacing.

corve maker, as for basket maker.

cradle maker (wicker), as for wicker furniture maker.

cradle maker, as for basket maker.

fancy basket maker, fancy caner: a basket maker g.v. who weaves fancy patterns, by hand, with finely split cane, osier, or rushes, upon fancy baskets, with band tools.

filler (cane or rush), filler-in, see chair filler-up.

flat maker, frail maker, as for basket maker.

frame maker: bends and shapes stout willow-rod to make frames of baskets, basket chairs, wicker furniture, etc.;

softens rods for bending by holding in gas flame or steam jet, saws, or cuts to length and fastens with nails or by binding with cord.

hamper finisher; a basket picker *q.v.* who also sews lining of cloth or cowhide into hamper, etc.; sews protecting pieces of cowhide on corners, with needle and hump thread or leather lace; binds bottom of hamper with wheels on to bottoms of hampers, etc.; if required; attaches metal hinges, locks and other fittings, by hand; sometimes also varnishes hamper or basket; also paints outer's same colour, by hand, with a brush. **hamper maker**, or for basket maker. **hamper slider**; a basket maker *q.v.* who weaves hamper sides and bottoms separately, where work of basket making is sectionalized; or makes parts of collapsible baskets, by hand, with basket maker's tools and by same method.

hive maker (straw), see beehive maker.

mandrill maker, see for basket maker.

osier worker, see weaver.

paid maker, see for basket maker.

plaiter; plaiter beads of grass, reed, rush, sedge, etc., to form a plait for making basket ware or for decorative work on baskets, etc., sometimes also makes plaits into soft rush baskets, etc., by hand with knife or scissors and trim plaits or braids; sometimes specially designated, e.g., grass plaiter, reed plaiter, rush plaiter.

gunnet maker, see chip basket maker.

rack maker (wicker), see for wicker furniture maker.

ruffia worker; decorates rush mats, baskets, women's straw hats, etc., by hand with coloured raffia, i.e., soft dried grass, threaded through a needle; works either from design supplied or own invention.

randary; a basket maker *q.v.* using single rods and osiers, instead of skews (three rods woven together) or plaits.

rattan worker (case furniture); weaves furniture of rattan (a tough and durable species of cane), as for case workers.

rod worker; a braider, a plaiter, or a weaver *q.v.* using willow rods or osiers.

rush worker; a braider, a plaiter, or a weaver *q.v.* using rushes.

sala worker, sala weaver; a basket maker *q.v.* using sala (a species of willow).

screen maker (wicker); a basket maker *q.v.* who makes screens of willow rods or of bamboo.

sedge worker, sedge plaiter, see for rush worker.

sieve maker; (Kess) a basket maker *q.v.* who makes fruit baskets called "sieves"; cf. sieve maker (426).

skip (skip) maker; (i) or for basket maker; (ii) see beehive maker.

sorter, rod sorter; sorts willow rods according to their length, thickness, and kind.

split maker (fruit baskets), see for chip basket maker.

staker; a basket maker *q.v.* who inserts side stakes, upon which sides are to be woven, into bottom of basket.

stick worker; nails together wooden sticks to make chairs, tables, etc., and covers them partly by winding and nailing on braids or plaits of twigs, rushes, etc.

straw worker; a braider, a plaiter, or a weaver *q.v.* working in straw.

swill maker, see for basket maker.

trimmer, see basket picker.

varnish; paints, varnishes, and decorates baskets and basket ware, case or wicker furniture, etc.

weaver (case, osier, rod, sale, twig, willow, withy); weaver, cane worker.

osier worker, wicker worker, willow worker; fills in framework of baskets, wicker furniture, and other basket ware by interlacing cane, osier or willow rods, twigs, etc.; or weaves osiers or willow rods into plain basket work, or prepares

skews (two or three rods plain or plaited) for filling framed articles; cf. basket maker.

wicker (wicker) maker; a basket maker *q.v.* who makes straw provender baskets, called "wickerets," by weaving and plaiting straw and twigs.

wicker coffin maker; a basket maker *q.v.* who makes coffin frame of thick cane, and fills in by weaving.

wicker stool maker; a basket maker *q.v.* who makes stool of willow rods, by hand throughout.

wicker stool ending maker; weaves and plaits, by hand, wicker stools, i.e., thin strips of cane, into casing for flask, bottles, etc., using hand knife for manipulating and trimming wicker.

wicker furniture maker; a basket maker *q.v.* who specializes in making, by hand, case or wicker chairs, tables, banquette, cart, perambulator, or bath chair bodies, or other similar articles of wicker work, having a framework of willow rods, and a filling of various rods and osiers interwoven therewith.

wicker stool maker, wicker tray maker, see for wicker furniture maker.

wicker truck maker; a basket maker *q.v.* who weaves rough square baskets of twigs or osiers, to be mounted on wheels or runners for use in factories, etc.

wicker worker, see weaver.

willow box maker; a weaver *q.v.* who makes boxes of willow rods.

willow worker, see weaver.

473.—CABINET MAKERS.

adzer; roughly cuts out solid seats of chairs by hand with an adze, i.e., a kind of axe with blade set at right angles to handle.

back maker (chairs) (i) makes chair backs entirely by hand, with wood-working tools; (ii) assembles, by hand, parts of chair backs which have been prepared by woodworking machinist (456) *q.v.*

bedstead maker (wood), bed maker, bed frame maker; makes bedsteads or cots of oak, mahogany, or other hardwoods by hand, using mortising and tenoning tools, saws, planes, chisels and other tools, also glue, sandpaper, etc.; work usually done either by a cabinet maker *q.v.* or joiner (474) *q.v.*

book-case maker, buffet maker, see for cabinet maker.

bull cutter, bull worker; cuts out, by hand, in gold, silver, brass, or other sheet metal, or in wood or other material, with a fine saw and sometimes also curves, by hand, using fine tools, a design to be laid in table, clockcases, etc., or in articles of ebony, ivory, tortoiseshell, etc., to give effect known as "bull" work.

cabinet case fitter; cuts out wood fittings for cabinet cases and passes to cabinet case layer (553) *q.v.* to fit cases; cf. cabinet fitter.

cabinet case maker; a cabinet maker *q.v.* or a specialized worker, who makes polished hardwood cases for cutlery, for surgical instruments, etc., by hand, using saw, plane, chisel and other hand tools; runs out wood joints of cabinet cases, and dovetail or mates them together; if working in hardwood, also makes hole for shield or eucalyptus, and for flush handle, with chisel and makes surface smooth with sandpaper, etc.; sometimes also inlays cases; cases are then ready for French polisher (478) *q.v.* or, if soft wood, for overcoat (553) *q.v.*; sometimes may receive some parts ready machined, see cabinet fitter.

cabinet fitter; a cabinet maker *q.v.* who specializes in fitting together, by hand, with woodworking tools, machined parts of cabinet and

furniture carcasses, heading, moulds, hinges, etc.; fixes hinges, locks, etc., by hand.

cabinet inlayer, see marquetry inlayer.

cabinet maker, cabinet worker; fits furniture and constructs all kinds of furniture and other woodwork that is not glued, using various hard or soft woods; sometimes makes finest class of woodwork, entirely by hand, from rough boards to finished article by sawing wood to required dimensions, planing, shaping, jointing, gluing and smoothing with sandpaper; but (if working in a furniture factory) is more usually engaged in fitting and joining together pieces of wood, which have been cut, planed, shaped, moulded, jointed, and sand-papered by machinery, by other workers; sometimes specifically designated, e.g., buffet maker, camera cabinet maker (camera cases), chest of drawers maker, case bed maker, desk maker, dining table maker, hat and umbrella stand maker, jewel stand maker, music stool maker, photographic cabinet maker (camera cases, slides, etc.), show case maker, sideboard maker, sewing machine case maker, horse maker, wardrobe maker, washstand maker, writing desk maker.

cabinet maker's fitter, see furniture fitter.

camera back maker (not metal); photographic back maker, dark slide maker (not metal); a photographic cabinet maker *q.v.* who specializes in making dark slides with accurately fitting movable partitions, glass screens, etc., of hardwood.

case band (piano), organ, etc., case worker, see fitter-up (pianoforte cases).

case maker; (i) (piano) saws wood to required sizes; planes and cloths it with glass paper and scraper; glues together pieces of wood thus prepared to make back frame, ends, top, falls, back-boards, panels, cheeks and rough bottoms; fits parts of case together, with glue and screws; (ii) (pipe organ) assembles, by hand, work of exterior of organ, and framing or supports; also makes swell boxes; (iii) (reed organ) receives sawn and planed wood from wood working machinist (456) *q.v.* and constructs case, or exterior, therefrom.

case maker (brush, jewel, pipe, etc., cases); general term for any worker engaged in process of making woodwork for brush, jewel, pipe, etc., cases, using circular saw, jig and band saw, sandpapering machines, and band tools and also for those covering and lining cases; sometimes specifically designated, e.g., brush case maker, jewel case maker, pipe case maker.

case maker (clocks); a cabinet maker *q.v.* who specializes in making clock or chronometer cases of polished hardwood.

chair cross framer; boro holes in legs of chair, with auger or brace and bit; inserts rails, i.e. braces, in holes, to strengthen chair, fastening them in with woodworking tools and glue.

chair frame maker, chair framer; chair maker, framer, frame maker; assembles parts of chair frame, prepared by woodworking machinist (496) *q.v.*, by hand, using glue, dovetails, i.e. pegs, screws and wood-papers exposed parts of frame, ready for polisher (478) *q.v.*

chair maker; (i) see chair frame maker; (ii) may also make upholstered chairs throughout, usually by assembling and fitting machine-made parts.

checker (piano), checker and planer, see planer.

chronometer box maker, chronometer case maker, see for case maker (clocks).

cot maker (wood), see for bedstead maker (wood).

couch maker; sofa maker; a furniture maker *g.v.* who specialises in making woodwork of couches, sofas, etc.

curtain frame maker; makes, by hand, using woodworking tools, wooden frames on which to dry lace curtains (see curtain lace, in course of manufacture), after washing up as to prevent distortion of designs worked thereon.

dark slide maker, *see* camera back maker.

deal cabinet maker, deal hand; donkey maker, whitened maker; a cabinet maker *g.v.* working in deal, fir, and other soft woods.

display cabinet maker, *see* shop fitter's cabinet maker.

donkey maker, *see* deal cabinet maker drawers maker; a cabinet maker *g.v.* who makes and fits drawers for cabinets, wardrobes, chests of drawers, etc.

embellisher of wood, *see* marquetry inlayer.

fall maker (piano); a part maker *g.v.* who specialises in making falls (hides covering keys when piano is shut).

fancy cabinet maker; a cabinet maker *g.v.* who specialises in making work-boxes, tea caddies, and other small cabinets; cuts with hand saw and file wooden parts, and joins them by gluing, dove-tailing, or other means; smooths and varnishes outer surface and sometimes also roughly polishes it; constructs wooden trays or compartments for insertion in box; sometimes specially designated, *e.g.* work box maker.

fitter-up (chairs); receives parts of chairs, couches, etc., which have been prepared by woodworking machinist (480) *g.v.*, assembles them by hand, using glue, dowels, i.e., pegs, screws and woodworking tools.

fitter-up (pianoforte, etc., cases); case hand, case worker, fronter, stopper-off; a specialised cabinet maker *g.v.* who receives case of piano, reed organ, or harmonium, as it leaves plinth and checker *g.v.* and proceeds assembling it case by small cherries, by hand, top and bottom doors, fall, hollow, lock front, and back and front tops, making necessary adjustments in these parts (which are commonly made in stock or standard sizes) to make them fit; also affixes decorative mouldings to above-mentioned parts; often (especially in smaller establishments) combines this with work of plinth-and-checker *g.v.* and of cleaner-up (480) *g.v.*

fly finisher (pianos); part finisher (pianos); fits together piano parts, *e.g.* moulding, embellishments, panels, reading desk for music, by cutting joints to fit, gluing, screwing up, etc.; puts in hinges and candle brackets; attaches backing, if required, and generally sets piano in condition ready for sale.

framer (chairs), frame maker, *see* chair frame maker.

framework hand, framework maker (billiard table); receives timber in rough shape; saws, planes and chisels it to make framework, sides and supports for the top of billiard table; makes square legs for tables; is usually a specialised cabinet maker *g.v.* engaged on heavier work than small worker (billiard table) *g.v.*

fronter (piano), *see* fitter-up (pianoforte case).

furniture fitter; cabinet maker's fitter; fixes handles, locks, hinges, etc., to pieces of furniture, after they have been French polished.

furniture maker, antique; art furniture maker; a cabinet maker *g.v.* who specialises in making imitations of Sheraton, Chippendale, or other period furniture.

furniture maker, bentwood; puts wood in steam chamber for a specified time to make it soft and pliable; then puts it into a bending machine, securing it to desired position with

screws and levers; cuts wood to required lengths and assembles parts by hand, using bolts, screws, dowels, *a.c.* pegs, and woodworking tools.

furniture repairer; does all kinds of repairing work, *e.g.* joinery, upholstery, fitting, as well as cabinet maker's work proper, on worn or damaged furniture.

grand piano maker; a fitter-up (pianoforte cases) *g.v.* who specialises in assembling and fitting together cases of grand pianos; also does work of plinth-and-checker *g.v.* as well as that done by fitter-up in case of upright pianos.

inlayer of wood, inlayer of fancy wood, *see* marquetry inlayer.

instrument case maker; surgical instrument case maker; (i) a cabinet case maker *g.v.*, who makes instrument cases throughout, using hammers, chisels, saws, etc.; constructs shells of cases and internal woodwork, *e.g.* larynxes, partitions, etc.; screws brackets and partitions into position; prepares case with gonges and other tools to receive brass supports, plates, hinges and locks; screws metal fittings into position; (ii) assembles and fits together parts of instrument cases supplied by other workers; attends dovetailing machine; fits in internal fittings and adds brass supports, plates, etc.

invalid chair maker; usually makes parts of invalid chairs but may receive complete requirements from woodblock machinist (480) *g.v.*; cuts panels, bolts, dowels, and assembles parts, by hand, using woodworking tools, and, if necessary, glue; *cf.* invalid chair maker (475/5).

jewel case maker, jewel and plate case maker; designs, shapes, fits out and finishes wooden jewel cases throughout, using usual woodworking tools; does not line or cover cases; prepares inside supports and glues them into position, cuts to shape, planes, sandpapers and glues into place strips of wood, gluing them into position in cases; contrives and shapes parts to display jewels, makes domed lid of box, using gonging and smoothing tools, work sometimes done by cabinet case maker *g.v.*

joiner (cabinet work); joins together, by hand, sections of parts of furniture and other wooden articles, prepared by cabinet maker *g.v.*; work requires finer finish than that of ordinary joiner (474) *g.v.* and is done by special woodworking tools, by dove-tailing, morticing, tenoning, dovelling, gluing, etc.

key block maker (pianos); prepares, by gluing and veneering, wooden blocks inserted between keyboard and ends of piano at each end of keyboard; does not fix keyboards in position on keyboard; usually done by part maker *g.v.*

looking glass frame maker; mirror frame maker; a cabinet maker *g.v.* who specialises in making, throughout, mirror or looking glass frames.

lyre maker; a part maker *g.v.* who specialises in making lyre pedal attachments for grand pianos.

marquetry cutter; from prepared designs, cuts, with hand saw or knife, a number of pieces of veneer, either separately or in a series of thicknesses of one another; also cuts surrounds to receive inlays, glues design in its surround on paper or to plywood; places whole in hand-manipulated screw press, together with plates of heated iron, to keep glue soft whilst pressure is being applied; removes work when set, and finally scrapes surface smooth, by hand, with steel scraper tool; work sometimes done by buhl cutter *g.v.*

marquetry engraver; receives sad of veneer, prepared by marquetry cutter *g.v.*, and rubs and scratches surface of pad with delicate graving tools to produce ornamental effects, *e.g.* veining of leaves, etc.; cuts are then filled in with black wax.

marquetry inlayer; cabinet inlayer, embellisher of wood, inlayer of wood, inlayer of fancy wood; traces upon coloured woods, shells, sheet metal, etc., outlines of shapes to be inlaid; cuts out shapes, *see* marquetry cutter; inserts them with adhesives into skirtings made by marquetry engraver *g.v.*, and, when they are set, smooths them off by planing, sand-papering, etc.

mirror frame maker (not gilt), *see* looking glass frame maker.

music stool maker, *see* piano stool maker.

oval frame maker (not gilt); (i) a looking glass frame maker *g.v.*, who receives sections of oval frames, which have been cut by fret sawyer (481) *g.v.*, and moulded by moulding machinist (480) *g.v.*, drills holes in sections and inserts wooden dowels, assembles sections, by hand, using woodworking tools, and, if necessary, glue; finishes by smoothing assembled glass, frames with sandpaper (476) *g.v.*, moulds, dowels and assembles parts of oval frames, entirely by hand, using woodworking tools.

overmoulded fitter; constructs or fits together by hand, using woodworking tools, glue and nails, overmoulded iron previously prepared moulding, paneling, etc.; also fits plate glass narrow where required.

parquetry cutter; marks out shapes of intricate design, using templates, on thin strips of various coloured woods; cuts these with hand or machine saw; finishes off edges and surface of each piece with hand tools and sandpaper, ready for parquetry inlayer *g.v.*

parquetry engraver, *see* for marquetry engraver.

parquetry inlayer; glues together thin strips of variously coloured woods, previously cut to shape by parquetry cutter *g.v.*, fixes them in a cowl, i.e., a hand-manipulated wooden device used for holding work in rigid position and at same time distributing pressure evenly; sometimes also finishes work with hand plane, scraper and fine saw.

part finisher (pianos), *see* fly finisher (pianos).

part maker (pinno); prepares parts of piano case, as received from saw mill, for veneering, by flattening surfaces, and then scraping them with a tool, *s.e.* a small-toothed plane used for giving a rough surface to wood then glue on veneer; sometimes also does work of veneer matcher *g.v.*; sometimes also makes falls (hides to cover keys) and doors, as well as flat parts.

photographic back maker, *see* camera back maker.

piano stool maker; music stool maker; makes piano or music stools throughout, by hand, with various woodworking tools, or by fitting together parts prepared by woodworking machinist (480) *g.v.*; dove-tails legs into base; if using revolving-screw stools, winds and screws in axle, on hinges and clasp; for companion cases, hollows out cavities for two or more pipes.

pipe case maker; lays pipe on plank and traces outline with pencil, allowing for thickness of lining to be inserted; reverses pipe and traces outline on another part of plank, giving shape of other half of case; chisels and gouges out wood almost to depth of pipe; saws off these two lengths from plank, and saws, chisels, raps, files, gouges and sandpapers to produce final shape; cuts away superfluous wood and screws in axle, on hinges and clasp; for companion cases, hollows out cavities for two or more pipes.

plinth, plinth-and-checker, checker (pianos), checker and plinth hand; fits ends, checks or sides of plinth back of upright piano, by hand, with glue and screws, sometimes also screws castors on to bottom of piano; work sometimes done by fitter *g.v.*

elevator assembler (aeroplane); see *aeroplane assembler*.
exhibition stand fitter; does rough carpentering, lays linoleum, tacks cloth, and does other similar work incidental to erection of exhibition stands.

fence (wood), fence erector; receives timber ready cut to dimensions required, and nails upright pieces to horizontal bars; also posts and erects fence in position, usually also fixes gates in position, and repairs fence.

fencing maker; binds together palings of cleft chestnut or other wood with wire, using a hand machine, to make chestnut fencing.

fixer, see carpenter, house.

floor dresser; planes with hand planes, or scrapes with steel scraper tool; wooden floors, after being laid by carpenter *q.v.*; work usually done by carpenter *q.v.*; sometimes dresses by use of portable electric planing machine.

floor layer; a carpenter *q.v.* who lays down and clings floor-boards, sole by side and nails them to floor joists to form floors, then planing away with hand plane, any unevenness.

form maker, see bench maker.

frame maker (agricultural machine); machine erector, machine frame maker, machine maker; a carpenter *q.v.* who builds framework and undercarriage of threshing machines, elevators, and other agricultural machines, and fits parts together.

frame maker, garden; horticultural frame maker, a carpenter *q.v.* who makes garden frames, such as

frame shooter (silk factories); a mill joiner *q.v.* who levels up woodwork of silk dressing frames.

fuelage erector, see body erector (aeroplane).

garden seat and furniture maker, see joiner (garden furniture).

gate maker; saws, shapes, and mortises pieces of timber and fits and nails them together to form gates.

greenhouse maker; horticultural house maker, a carpenter *q.v.* who makes wooden framework of greenhouse, etc., either by hand, cutting, shaping and joining pieces of wood with woodworking tools; or more usually by fitting together pieces of wood prepared by machinist (456) *q.v.*; may also erect framework, usually on brick base, afterwards to be glazed by glazier (509) *q.v.*

handrail maker; a joiner *q.v.* who makes working drawings of wooden handrail, cut seating, etc., and makes by hand, with woodworking tools, various templates or moulds for use in cutting twists or turns in rail; cuts twists or turns from square blocks of wood on hand saw, or directs hand sawyer (451) *q.v.*; cuts ornamental moulding of twists and turns with hand tools, but usually receives long straight pieces ready moulded by moulding machinist (456) *q.v.*; does completed handrail into position, by hand.

boarding erector, boarding maker; a rough carpenter *q.v.* who fixes timber on rough standards, to make surface for advertisements, or as screen.

horticultural house maker, see greenhouse maker.

hutch maker; a rough carpenter *q.v.* who makes rabbit hutches, colliery hutches (wheeled boxes for transporting coal in a mine), or bakers' kneading troughs.

joiner; makes various kinds of woodwork in a workshop (is distinguished from carpenter, who usually works outside workshop); fits together pieces of prepared wood (mainly deal, pine, oak, mahogany, teak and walnut) by gluing, dovetailing, screwing, tonguing, and grooving, to make doors, windows, staircases, cupboards, panelling, etc., for houses, counters, show cases, etc., for shops, woodwork of railway carriages, tramcars, etc., lighter parts of ships' timbering and

ships' fittings, etc.; sometimes also a carpenter *q.v.*; sometimes works in conjunction with cabinet maker (475) *q.v.* where work is to be decorated with veneers or with inlays.

joiner, cabin; cabin maker, ship joiner, a joiner *q.v.* who constructs ships' cabins, including bunks, bunks, racks, washing stands, etc.

joiner, carriage (textile machinery); a joiner *q.v.* who makes wooden parts of carriages for male spinning machines.

joiner, case (organ); a joiner *q.v.* who makes external woodwork, e.g. panels, moulding, bands, impots, paws, rails, pilasters, decorative work, canopy, of pipe organs, by hand and/or by machine.

joiner, case (piano); a joiner *q.v.* who saws up parts of piano case, makes joints and fits parts together; cf. case maker (piano) (473).

joiner, coach; assembles pieces of wood, prepared by woodworking machinist (456) *q.v.*; assembles them to form frames, doors and other finer sections of coach woodwork, cutting and shaping if necessary, with saw, chisel, etc., to facilitate fitting, and fastening parts together with nails, screws or bolts.

joiner (colliery); (i) see carpenter, pit; (ii) in Cumberland and Cleveland, a carpenter *q.v.* who erects timber for support of roof and sides of colliery roads, and hetties for ventilation in colliery places.

joiner (garden furniture); garden seat and furniture maker; a joiner *q.v.* who cuts and joins together timber, either sawn and planed or rustic, i.e. in natural irregular form, to form garden furniture.

joiner, loom; a joiner *q.v.* who cuts and fits together wooden parts of weaving looms.

joiner (maintenance), mill joiner, see carpenter (maintenance).

joiner, printer's; a joiner *q.v.* who makes printer's type cases and other equipment for printers' offices, by fitting together pieces of wood, which he usually receives cut, grooved, and tenoned by other workers.

joiner, ship, see joiner, cabin.

joiner, shop fitter's; a joiner *q.v.* who constructs shelves, counters, drawers, cupboards, etc., for equipment of shops, usually of less intricate construction, than commercial wood, or of less high finish than those made by shop fitter's cabinet maker (473) *q.v.*

ladder maker; a rough carpenter *q.v.* who makes and drills uprights of ladders, and makes and constructs leading fence (railways); is in charge of a gang of men erecting or repairing fences along a railway, see fence, machine erector, machine maker, machine frame maker, see frame maker (agricultural machine), machine maker (wood), see chimney piece maker.

master carpenter (theatre); in large theatres is responsible for making and repairing wood-work required on stage, and often for all carpentry work in theatre, in small theatre is usually a working stage carpenter *q.v.*

mattress frame maker (wood), wire mattress frame maker; bed frame maker, joiner *q.v.* who assembles pieces of wood to make a frame to which wire mattress is attached or from which box mattress is made.

mineral water box maker, or for divison case maker.

stone maker (artificial stone); a rough carpenter *q.v.* making wooden moulds in which artificial flags, blocks, or stones are cast.

pitwright, see carpenter, pit.

plane assembler (aeroplane); builds up parts of planes, i.e. wings of aeroplanes, prepared by sawyers (481) and machinists (456) *q.v.* on a jig or mould, into complete planes, by hand, with woodworking tools.

plane erector (aeroplane); attaches elevators, i.e. ailerons, to aeroplanes or wings of aeroplanes; erects plane

or wings on fuselage, i.e. body of aeroplane; also erects or builds up fuselage; assembles rudder, and attaches to fuselage.

platform band (tramcar); assists erector (216) *q.v.* in fitting up conditions on driving platform; assists body builder (476) *q.v.* in fitting of shields, guards, stairs, etc.

poultry appliances maker; a rough carpenter *q.v.* who puts together pieces of wood ready cut to measure to form wooden fowl houses, chicken runs, chicken bathtubs, egg boxes, incubators, etc.

roof fixer, roof band; roof truss maker; a carpenter *q.v.* who cuts prepared pieces of timber to required angles, lengths, and joints to form frame of roof, and fastens them together with iron straps and bolts, or with nails.

roof repainer (rolling stock); renews timber, steel, cast-iron, used as roofing materials on railway or tramway rolling stock.

roof truss maker, see roof fixer.

saw maker (wood), meat saw maker; cuts pieces of wood to required size and shape, and fits them together to make wooden saws and fixes wire gauge in door frames and/or sides for storing meat.

see chest maker; a joiner *q.v.* who assembles pieces of wood, which he receives ready cut and machined, and screws or nails them together to form see chests; adds strengthening strips, metal angle pieces, hinges, locks and handles.

seat maker (tramcars); a joiner *q.v.* who cuts, joins and fits together pieces of wood to form seats of tramcars.

sheep cage maker; a rough carpenter *q.v.* who makes cages for the conveyance of sheep and lambs from field to fold or to market.

shutter maker (wood); (i) a joiner *q.v.* who makes flat wooden window shutters, (ii) a woodworker (456) fastens together lathes of special section with hinged chain, which is screwed to back, the whole being attached to a spring roller, so that shutter can be drawn up or down.

sign maker; a carpenter *q.v.* who joins and glues together boards, strengthened by battens screwed on back, dresses front to fair surface by planing, in readiness for advertisement to be painted on it; generally also fixes sign.

skylight maker; a joiner *q.v.* who fits together pieces of prepared wood to form a skylight, and fastens them together by tenoning and morticing, by gluing (or painting) tenons and mortices, and by driving in wooden wedges; then cleans off joints to fair surface with plane.

sliding partition maker; a joiner *q.v.* who makes pieces of framing, which may be fitted with (i) centre pivot at top and at bottom on which framing revolves when partition is folded, or (ii) wheels to enable it to slide at top and at bottom of framing; also fits pieces of framing together to make complete partition.

spout maker (cement); a rough carpenter *q.v.* who makes, by hand, and repairs spouts of wood for conveying cement into bins in warehouses; cf. spout maker (metal) (263).

staircase builder; a joiner *q.v.* who takes side pieces of staircase, ready cut to required dimensions, and cuts grooves therein for insertion of steps; inserts steps, consisting of pieces of wood glued together, and fastens them in with wedges.

step maker; a carpenter or joiner *q.v.* who cuts, by hand, pieces of wood to required dimensions, and planes them for step ladders; cuts grooves in side pieces for insertion of steps; fits steps into grooves, and nails whole together; makes supporting stay, in same way, attaches stay to step portion by hinges; sometimes also makes treads and similar articles.

tank maker (wood), *see* cistern and tank maker.

target maker (floating), floating target maker; a carpenter or ship carpenter *q.v.* who constructs a foundation of timber and erects vertical supports for attachment of lattice work, for use as targets for gun practice; may also cover lattice with canvas, fastening it with battens and nails.

tool chest maker; a joiner *q.v.* who takes pieces of wood, ready cut and machined by other workers, and fits them together, by hand, to form tool chest; adds metal or rope handles, and fits in trays and compartments.

top deck hand (tramcar); fits trolley poles, axles, rails, and other fittings of top decks of double-decked tramcars, and is responsible generally for wood work on top decks.

travelling box maker, *see* trunk maker.

trawler maker, *as for* step maker.

trough maker (wood); a rough carpenter *q.v.* who makes wooden troughs for agricultural and other purposes.

trunk maker (wood), Saratoga trunk maker; travelling box maker (*wood*); assembles and nails together, by hand, pieces of wood, cut and shaped by other workers; glues outside of trunk, and covers it with cloth or leather; attaches metal edges and corners, hinges, handles and locks, also wooden buttons or staves.

wainscot maker; saws, by hand, and fits from planed or moulded wood, wainscots for rooms, staircases, etc.; nails or otherwise secures to wall and flooring.

wheelbarrow builder, wheelbarrow maker; a carpenter *q.v.* who builds, fits, and joins together pieces of wood to make wheelbarrows.

wheelbarrow repairer; a carpenter *q.v.* who specialises in repairs to wheelbarrows.

window sash maker; a joiner *q.v.* who receives sections of wooden frames for sash windows, prepared by woodworking machinist (485) *q.v.*; fastens them together with screws or nails, by clamping in hand-manipulated machine, or with glue; makes joints fast with wooden wedges driven into mortises.

wing erecter (aeroplane); a plane erecter *q.v.* who specialises in erecting aeroplane wings and fitting to fuselages.

475-6.—COACH AND CARRIAGE (INCLUDING RAILWAY CARRIAGE AND TRAMCAR) BUILDERS; BODY BUILDERS; WHEELWRIGHTS; B. B. T. WRIGHTS, WAGONWRIGHTS.

ambulance builder, ambulance maker, *as for* coach builder (private carriages).

barrow builder, barrow maker, *as for* cart builder; *cf.* wheelbarrow builder (474).

Bath chair maker; invalid chair maker, invalid carriage maker, wheel chair maker; (i) assembles wooden parts of body of Bath chair, invalid chair or carriage, etc., which have been prepared by machinist (486) *q.v.*; but does not mount chair on spring and wheels, or add hood and other fittings, for which *see* fitter or mounter, (ii) makes body of Bath chair, etc., throughout, i.e. prepares wooden parts, by hand, with woodworking tools, and finishes them.

body builder, body maker (not case or vicker), wood body maker; car builder, coach builder (tramcars), coach maker; receives wood, prepared by woodworking machinist (486) *q.v.*, and builds up, by hand, with woodworking tools, according to design supplied, into framework, lining,

floors, and other wooden parts of bodies of coaches, carriages, motor cars, railway carriages, tramcars, perambulators, etc.; cuts or chisels each part, if necessary, with saws, rasps, etc., to make it fit more perfectly; fits them together with bolts, screws, etc., and fits in wood panels and moulding on metal parts; sometimes specifically designated, e.g. basinet body maker, coach body maker, motor body maker, perambulator body maker.

body finisher; car finisher, carriage finisher, coach finisher, finisher, motor finisher; smooths surface of car or carriage body, after it has been built by body builder *q.v.*, with glass paper or with pumice stone or pumice, or by filing or planing; prepares surface for polisher (478) or painter (390) *q.v.*; in repair work cleans off old polish, and prepares surface for re-polishing; *cf.* mounter.

body fitter, *see* mounter.

car builder (tramcars), *see* body builder.

car finisher, *see* body finisher.

carriage builder, carriage maker, *see* coach builder (private carriages).

carriage finisher, *see* body finisher.

carriage fitter (railways); fits brake-work, axle-boxes, and other metal parts on under-frames of railway carriages.

cart builder, cart maker, cartwright; builds body of cart, *see* body builder, and adds axles, wheels, shafts, etc., thereto; work often done by wheelwright *q.v.*

coach builder (private carriages, motor cars, etc.); carriage builder, carriage maker; general term for workers engaged in building or making carriages or coaches, including body builder, body fitter, mounter, coach body mounter *q.v.*, and also coach trimmer, coach upholsterer (394) *q.v.*

coach builder (tramcars), *see* body builder.

coach finisher (railway carriages), *see* body finisher.

coach fitter (railway carriages); fits and bolts wooden body on to chassis frame, and fits parking and timber bolsters into bogies; also fits brakes and general details on to carriages.

coach maker (railway carriages and tramcars), *see* body builder.

coach wheeler, *see* wheel builder.

dray maker, *as for* cart builder.

felloe bender, *see* rim bender.

felloe cleaver, felloe hewer, felloe render; cuts out felloe (segment of rim of wooden wheel) direct from rough timber with hand tools; obsolescent.

felloe cutter, felloe maker; marks out shape of felloe (segment of rim of wooden wheel) on plank of wood and cuts out with hand frame saw; sometimes done by hand sawyer (481) *q.v.*

finisher, *see* body finisher.

finisher (rolling stock); fits handle fittings, number plates, etc., on vehicle after it has been painted, working by hand with hand tools; *cf.* body finisher (393).

fitter, fittings and furniture fitter; fixes in position, fittings and attachments of axles, carriages, or other vehicles.

float builder, float maker, tradesman's float builder, tradesman's float maker; a cart builder *q.v.* who specialises in making milk floats, and other tradesmen's floats or light cars.

hand cart maker, *as for* cart builder.

hanger (motor cars); a body builder *q.v.* principally engaged in fitting spind boards, foot steps, tool boxes, brackets, and other accessories to motor cars.

horse box builder, horse box maker; builds up, from prepared parts, rolling stock used for conveying horses on railways, and repairs such vehicles as required; work usually done by body builder *q.v.*

horse box repairer; repairs woodwork of horse boxes, and fits new or repaired ironwork thereto, as required.

invalid carriage maker, invalid chair maker, *see* Bath chair maker; *cf.* invalid chair maker (475).

milk cart builder, milk cart maker, milk float builder, milk float maker, *as for* float builder.

motor finisher, *see* body finisher.

mounter, body mounter, coach mounter, coach body mounter; body fitter; fixes body of carriage, cart, motor, or other vehicle to its chassis, or undercarriage, by hand, using hand tools, screws and bolts; also fits mudguards, etc., before painting.

repairer (cart, dray, float,rolley, trolley, van, etc.); a cart builder or dray builder *q.v.* principally engaged in carrying out repairs, by hand, to carts, drays, floats, etc.

rim bender, rim maker; felloe bender; places strips of wood (ash or elm) in steam chest and withdraws them when sufficiently softened; places them in clamps and, by bending and screwing up tightly, shapes them into bell circle on block; removes from clamp when dry.

rolley builder, roley maker, *as for* cart builder.

side ear builder, *as for* coach builder (private carriages).

spoke bender; softens wooden spokes in steam chamber and bends them to shape; after they have been bent or cloven from hulk; obsolescent.

spoke cleaver, spoke hewer, spoke render; cuts wooden spokes out direct from rough timber, with hand tools, splitting the wood the way of the grain.

spoke cutter, spoke maker; shapes spoke, by hand, from square block of wood by cutting away edges with small sideaxe; finishes by trimming surface with spokeshave or draw knife; mortises end of spoke for fixing into hub and felloe; sometimes done by machine by wood turner (480) *q.v.*

timber carriage builder, timber carriage maker, timber wagon builder, timber wagon maker; a cart builder *q.v.* who specialises in making timber carriages, i.e. wagons used for carrying tree trunks, baulks, and other large pieces of timber.

trolley maker, truck builder, truck maker, van builder, van maker, wagon builder, wagon maker, wagon wright, wood's wagon maker, *as for* cart builder.

wheel blocker; horse hub of cart wheel on a wood lathe to receive axle, and attaches metal bushes thereto.

wheel builder, wheel maker, wheeler; coach wheeler; receives hulk (stock), spokes and felloes ready made; mortises hub by hand or machine; fits spokes into holes thus made; finishes; also takes either end of spokes and fits felloes to spokes; drives wooden or steel wedges into mortised holes to fix spokes firmly; smooths over work with plane, rasp, and sandpaper in readiness for iron-smith; in some cases may also make spokes, hubs and felloes; *cf.* felloe cutter, spoke cutter, and stock maker (wheels) (486).

wheel chair maker, *see* Bath chair maker.

wheel glazier; mortises hub and fixes spokes of cart wheels into wheel centres; obsolescent; usually done by wheel builder *q.v.*

wheel maker (railway coach, etc.); cuts out wooden or paper maché

blocks to fill spaces between tyre rim and boss, and fits together parts of railway carriage wheel.

whielwright; assembles wooden parts of carriages, vans, etc., prepared by sawyer (481) or by woodworking machinist (488) *q.v.*, and fits these parts together by hand, with hand tools, to make complete vehicles; often also does work of a wheel builder *q.v.*

477.—COOPERS, HOOP MAKERS AND BENDERS.

back maker, *see vat maker*.

barrel and cask maker, *see cooper*.

buckett maker, churn maker, as for cooper, *white*.

cooper; barrel and cask maker; tubber, tubbie, tub thumper (*slang*); (1) makes barrels or casks by hand, using cooper's hammer, adze, etc.; takes staves, prepared by hand sawyer (481) *q.v.*, and helves them on one side, with a two-handled bedding knife; rounds or bucks with backing knife; joints, *i.e.* bevels edges, by pushing steel-jointed blade of jointer tool; assembles a number of staves in a circular forming frame, passes a temporary wooden hoop over them, and hammers, forcing staves close together; repeats process with smaller hoops until a half-completed cask over the barrel to make wood warm and pliable; finally hammers on permanent hoops; scrapes surfaces of cask, inside and outside, smooth with steel scraper; takes component parts of heads, *i.e.* ends of cask, prepared by head cutter (481) *q.v.*, outlines circular shapes thereon with dividers, and cuts to shape with a cooper's adze; cuts a groove, *i.e.* groove, near top of staves inside, to receive head, with a crowing tool, *i.e.* a kind of plane; chisels staves, *i.e.* helves, inner edge, at top, with a spokeshave; hammers on final hoop round top; often employed in repairing casks or barrels, *e.g.* taking out defective staves, heads, etc., and replacing with new; (2) assembles staves, which have been hallowed, backed and jointed by cooper's machinist (488) *q.v.*; passes hoops over assembled staves, and inserts and hammers in heads, but leaves hoops to be hammered slightly by machine barrel driver (469) *q.v.*

cooper, head, *see cooper, dock*.

cooper, dairy, as for cooper, *white*.

cooper, dock; bond cooper, a cooper *q.v.* who is employed in bonded warehouse at docks in unship, repair, and storage of full casks.

cooper, dry, a cooper *q.v.* who makes casks or barrels for cement, groceries, and other non-liquid goods.

cooper (repairing); barrel repairer, cask repairer, tub repairer; a cooper (wet or dry) *q.v.* employed in a coopers' shop, or at a manufacturing establishment or warehouse in any industry where casks or barrels are used, and is wholly or principally engaged in repairs.

cooper, runlet; a wet cooper *q.v.* who specialises in making runlets, *i.e.* small casks or barrels for milk, wine, vinegar, etc.

cooper, wet; tight cooper; a cooper *q.v.* who makes casks or barrels for holding liquids.

cooper, white; makes buckets, churns, wooden pails, and other *fasty* goods of the coopers' craft, using tools and methods similar to those of cooper *q.v.*

dolly tub maker; a white cooper *q.v.* who makes washing tubs.

header-up (Guelph kegs); hammers head, *i.e.* four sections of shagged wooden board, into end of cask, resting upon hoop which has been inserted by liner-in *q.v.*; sometimes also fits in an additional board made of cardboard, before wooden head, to make keg dust proof.

hoop bender, wood hoop bender; hooper (Westmorland); receives split saplings that have been soaked in hot water or steamed in steam chamber; passes them through roller machine, which he turns by hand, to give a slight inward curve, then bends them, by hand, on a frame of whatever size hoop is to be; binds ends of hoop with peg.

hooper; (1) completes cask or barrel by putting on permanent iron or wooden hoops, by hand or by machine; (2) in Westmorland, *see* hoop maker, and hoop bender.

hoop maker, wood hoop maker; Hooper (Westmorland), hoop shaver, splitter; splits saplings of hazel, chestnut or ash and makes them into wood hoops for coopers; *see* hoop bender.

hoop shaver, *see* hoop maker.

hoop stick bender; bends sticks to shape, by steaming, for use in making rails of railway carriages, and the like.

keg maker; a cooper *q.v.* making kegs, or small barrels.

keg maker, Guelph; general term for any workmen engaged in making Guelph kegs, *i.e.* cylindrical wooden vessels made of two or three layers of veneer, including machinist (Guelph kegs), liner-in (Guelph kegs), header-up (Guelph kegs), and liner-off (Guelph kegs) *q.v.*

liner-in (Guelph kegs); receives unfinished Guelph keg from machinist *q.v.* and puts it in trough of specially constructed hollow bench; nails wooden hoop with hammer and nails, at a specified distance inside edge or lining of keg, which is then ready for header-up *q.v.*

liner-off (Guelph kegs); nails a final wooden hoop upon head of keg, with hammer and nails, to keep head in position.

machinist (Guelph kegs); lays two or three layers of narrow boards of veneer, horizontally, to form base on cylinder of keg-forming machine, rotating cylinder slowly, segment by segment, by means of iron clamps; clamps boards down with adjustable iron clamps; lays narrower strips of veneer vertically at right angles to horizontal pieces, slips iron hoops over this second set of strips to hold them in position, and clamps them down with adjustable iron clamps; punches holes in iron hoops with hammer and punch, to receive nails, and nails binding strips to hose; trims off edges by bringing two small power-driven circular saws, one at each end, into contact with them, by moving hand lever or treadle; removes iron clamps, and takes keg from cylinder on which it has been built up.

pail maker (wood), as for cooper, *white*.

repairer, barrel, cask, tub, *see* cooper (repairing).

scraper, shaver; scrapes or shaves inner and outer surfaces of casks, by hand, with a two-handled shave knife or with a steel scraper tool; work usually done by cooper *q.v.*; cf. finisher (coopering) (486).

splitter, *see* hoop maker.

trimmer; examines used casks or barrels, on return to brewery, distillery, etc.; taps staves with a hammer to discover if they are sound, and marks, with chalk, staves, or chops pieces out of defective staves, etc., to call attention to defects; examines them again when returned from repair shop, and sends back for further attention if still defective.

trusser (casks); slips a temporary wooden hoop over staves of uncompleted cask or barrel, and hammers it down with hammer and driving iron, to force staves close together,

cask is then ready for permanent iron hoops to be put on in same way.

tubber, tubbie, tub thumper (*slang*), *see* cooper.

tub maker, *see* vat maker.

unheader (casks); takes out heads of casks for cleaning purposes, for repair or for removal of contents; usually done by cooper (477) *q.v.*

vat builder, vat erector; a vat maker *q.v.* who erects, in brewery, large vat or back which has been made in coopers' shop, and takes in pieces for convenience of transport.

vat maker; lark maker, tub maker; a wet cooper *q.v.* who makes large wooden tubs or tanks, for brewing and the like, called vats or backs.

478.—FRENCH POLISHERS.

bodyer, bodier (pianos and organs); takes roughly polished parts from filler *q.v.* and fills on more polish to give body or increased depth of colour.

filler, filler-in, polisher's filler-in; polishing boy; fills up with soft, porous graft of white wood, used in piano and organ making, with a patent filling composition (composed largely of plaster of Paris), which he applies by hand, with a piece of sacking, rubs whole with sandpaper; then applies rough first coat of polish by hand, with a cotton-wad.

polisher, French polisher, wood polisher; covers surface of woodwork (usually hardwood) with a coating of spirit varnish, *i.e.* gum shellac dissolved in spirit, and rubs it over with a hand pad containing cotton wool saturated with varnish until spirit has entirely evaporated; for inferior work occasionally applies varnish with a mechanical spray; sometimes uses wax and other materials for polishing in addition to, or instead of, spirit varnish; sometimes stains and fills wood surfaces, in addition to polishing them, *see* filler.

polisher (pianos, harmoniums, organs); a polisher *q.v.* engaged in polishing cases of pianos, organs, harmoniums, etc.; can sometimes "colour up" case to any desired colour; sometimes finishes polishing with mottled spirit, or by rubbing in vitrol and chalk.

tpolishing boy, *see* filler.

479.—PACKING CASE AND WOODEN BOX MAKERS.

botcher, *see* repairer.

box cooper, *see* repairer.

box maker, wooden box maker; general terms for any worker who performs any or all of the following processes, *e.g.*, assembles pieces of timber, previously cut to required dimensions by sawyer (481) *q.v.*; nails or screws them together, either by hand or by automatic nailing machine; trims edges with spoke shave; adds handles, fittings, hinges, etc.; sometimes also sandpapers and varnishes boxes, and puts in trays or compartments (if any).

box re-maker, *see* repairer.

case maker; packing case maker; assembles boards, previously cut to required dimensions by sawyer (481) *q.v.*, and nails them together to form packing cases; trims edges of boards with saw, and adds fittings, hoop iron binding, lids, metal corners, rope handles, hinges, etc., as required, using jointer's tools.

crate maker; assembles and nails together, by hand, planks or battens, previously cut to required dimensions by sawyer (481) *q.v.*, to make crate; adds hoop iron and handles, if required.

packer (printer's rollers); a case maker *q.v.* who makes a specially shaped and fitted wooden case for the transport of printer's rollers; inserts roller in case and secures it.

packing case maker, *see* case maker.

repairer, box repairer, case repairer; botcher, box cooper, bar re-maker, tea chest cooper, tea cooper; removes old or damaged parts of boxes, cases, crates, tea chests, etc., and replaces with new timber; renews iron hoops, handles and other fittings; re-nails box or case and re-varnishes if necessary.

tea chest cooper, tea cooper, *see* repairer.

ten chest maker; nails together, by hand, parts of tea chests, previously cut to required dimensions by other workers; adds hoop iron or metal corner strips or tin foil lining.

480.—PATTERN MAKERS (WOOD OR UNDEFINED).

core box maker, *see* pattern maker.

model maker; Yorkshire term, *see* pattern maker.

mail model maker, nail pattern maker; a pattern maker *q.v.* engaged in making patterns for use in manufacture of cast nails.

pattern maker; model maker (Yorkshire); makes models of patterns (usually of wood), core boxes, striking boards, templates, etc., used by moulders in a foundry to form sand moulds from which castings are made; receives, from drawing office, drawing of part to be cast (or sometimes in provided with specimen of part itself) and makes rough working drawing therefrom; thence makes pattern in two or more parts, to facilitate removal from sand, using hand tools, wood-boring machines, tools, and a few special tools and devices; sometimes specifically designated, *cf.* engineer's pattern maker; *cf.* pattern maker (278).

481.—SAWYERS.

aeroplane rib, spar or strut maker; a sawyer *q.v.* who cuts longitudinal spars and transverse ribs for aeroplanes on circular or band saws, to pattern provided.

back sawyer, *see* rack sawyer.

bamboo machinist; cuts part of bamboo furniture, etc. on circular saw, ready for bamboo furniture maker (496) *q.v.*

band sawyer, band mill sawyer, bandman; adjusts or inserts a gauge, mould, or mark in power-driven band or ribbon saw to guide wood as it passes through machine; sets machine in motion by moving a lever or otherwise; passes wood into machine, and holds it as it passes through machine, guiding it if necessary; if a skilled sawyer, sets his own saw, i.e. sharpens teeth by hand filing and with punch and hammer.

bowl cutter (tobacco pipes); cuts brier root or other wood roughly to shape of bowl and stems of tobacco pipe, with a machine saw.

box and slide machine attendant; (i) adjusts gauge of power-driven band saw or circular saw to width required; sets saw in motion by moving a lever or otherwise; passes wood over metal table of machine into contact with saw; sharpens saw, by hand, if required; (ii) stands at back of machine, and receives cut wood as it leaves saw, guiding it towards him over metal table of machine.

box-maker's cutter, cutter-out; cuts out sides, bottoms, and tops of boxes to measurements, on circular saw; *cf.* box-maker's cutter (and sawyer) (480).

blocker, *see* wood block sawyer.

blocker (wood heels), bell blocker; a sawyer *q.v.* who cuts up lengths of timber into blocks for breaster (486) *q.v.*

chair stuff maker; a band sawyer *q.v.* who specialises in cutting sections of chairs; *cf.* chair stuff maker (486).

circular sawyer; adjusts or inserts a gauge in power-driven circular saw, regulating length and width to which timber is to be sawn; sets in motion saw, which protrudes through a slot in metal table of machine, by moving a lever or otherwise, and passes timber along surface of table, against revolving circular saw, if a skilled sawyer, sharpens teeth of saw, by hand, with a file, punch and hammer, and fixes saw, after sharpening, back in position in machine.

colliery sawyer; saws timber, usually of large bulk, for use in and about mines; usually operates circular saw.

converting mill worker; general term for any person working in a mill where trees trunks or roughly hewn blocks of timber are converted into joists, planks, or other marketable shapes and sizes of timber.

cooper's sawyer; sawyer (cooperage); a circular sawyer *q.v.* who saws timber into cask staves on circular saw bench.

cross cut sawyer; cuts wood by pushing, by hand, moveable bed carrying material backwards and forwards past circular edge of circular saw (specially sharpened to cut across grain of wood) so that wood is not splintered at edges.

ebony cutter; holds ebony wood against power-driven circular saw or hand saw, thus cutting it to required dimensions and to best advantage, taking into consideration "shake" and medullary rays; great care required as ebony is very valuable.

frame sawyer; operates machine containing a number of thin flat saws, moving up and down vertically or, more rarely, horizontally, and cutting several boards at once; set saw, i.e. sharpens them by hand, using hammer, punch, and file; sets saws in position in machine, adjusting them by hand with help of gauges according to width of timber to be cut; places or supervises the placing of timber in position to be cut and manipulates power controlling levers.

frist cutter, frist saw worker, frist sawyer; pig sawyer; pastes design or holds template on piece of prepared wood, and follows outlines of design or template with power-driven frist saw.

handle alliter (saws); cuts, with circular saw, slit in saw handle which receives saw blade.

head cutter (cooperage); layer out of bands; a sawyer *q.v.* who cuts lengths of well seasoned wood on a circular saw, and lays them out in stacks, ready for cooper (477) *q.v.*, in making heads, i.e., and pieces, of casks or barrels.

horizontal sawyer; a frame sawyer *q.v.* operating a frame saw moving horizontally instead of vertically.

fig sawyer, *see* frist cutter.

key cutter (pianos); cuts out individual keys from keyboard (on which ivory or other thin pieces have already been glued) with a hand or power-driven saw.

layer out of heads, *see* head cutter (cooperage).

log band sawyer; a band sawyer *q.v.* working with a heavy type of band saw used for cutting logs and heavy banks of timber.

panel cutter, panel maker; a sawyer *q.v.* cutting wood into specially thin boards for panels of carriages, coaches, etc.

parquet block cutter, parquet flooring cutter, *see* wood block sawyer.

pit prop sharpener; sharpens ends of pit props by sawing to a taper by hand or on machine saw.

pit sawyer; one of two men who cut up timber by hand, with a long saw having two handles; one man stands above, holding one handle, another below, in a pit.

punk bench sawyer; a sawyer *q.v.* who cut timber by pushing it, by hand, against a revolving saw, on a saw bench which has no mechanical feeding equipment.

rack sawyer; rack sawyer; operates a saw bench (for cutting heavy timber) which is moved towards saw by a geared apparatus called a "rack."

sawyer, mill sawyer, wood sawyer; cuts up timber, usually into standard shapes and sizes, with a hand saw or, more usually, by passing timber into a power-driven circular, hand, frame or other machine saw; sets machine in motion by moving a lever or otherwise; sometimes adjusts or inserts gauge, mould or mark in machine to regulate length or width of pieces of timber to be sawn or to guide timber as it passes through machine; if a skilled sawyer, also sets saw, i.e. sharpens teeth with file, hammer and punch; sometimes specifically designated, *cf.* breast sawyer, packcase case sawyer, pit prop sawyer, railway sleeper sawyer.

sawyer (cooperage), *see* cooper's sawyer.

sawyer (pencil factory); a circular sawyer *q.v.* who saws up logs of cedar wood into blocks and thence into "slats," or rods of the length of six pencils; cuts up slats into pencil lengths, using a circular saw.

stick sawyer; marks pattern of stick required on a block of wood, and cuts shape out with hand saw.

swing cross cut sawyer; a cross cut sawyer *q.v.* using a cross cut saw suspended and driven from above, which is forced to and fro across material to be cut.

timber squarer; a sawyer *q.v.* who squares off timber with a swing saw; *cf.* timber squarer (496).

vertical frame sawyer; a frame sawyer *q.v.* operating usual type of vertical frame saw; *cf.* horizontal sawyer.

whip sawyer; cuts wood down grain, using a very narrow tapering rip saw with hook teeth, worked by one or two men.

wood block sawyer, wood block flooring maker, wood paving block sawyer; botcher, curved block cutter, parquet flooring cutter; a circular sawyer or a frame sawyer *q.v.* who cuts planks into blocks for use in flooring, with a circular or frame saw.

wood pulp sawyer; a circular sawyer *q.v.* who cuts logs to prescribed lengths, convenient for manufacture of wood pulp (for paper making) by means of a large power-driven circular saw suspended above logs in a cedar-barked area; pull down saw, by a handle, into contact with log, which rests on a bed or over a pit, and switches on power-drive.

482.—SHIPWRIGHTS AND BOAT AND BARGE BUILDERS (WOOD).

barge builder; (i) general term for any man engaged in constructing wooden barges, e.g. making framework, riveting on sides, caulking; (ii) a man capable of building barge through-out, with assistance of unskilled labour.

boat builder, boatwright; a shipwright *q.v.* who builds a boat throughout, i.e. cuts, shapes and bends, in steam press or with clamps, keel and main timbers of boat; constructs framework of boat and rivets to it with metal rivets, thin overlapping strips of wood; constructs rudder, masts and fore and aft, stretchers, etc.; works entirely by hand, using hand tools.

carpenter; term is used in Scotland, in sense of shipwright *q.v.*; *cf.* ship joiner (474).

caulker, wood caulker; a shipwright (carpenter in Scotland) g.v. who opens seams of planks, bunks, or timbers with a hammer and chisel, and fills them with oakum, which he drives in with a hammer and chisel; pours marine glue into seams, after caulking, to make them watertight; in caulking boat seams, fills with cotton instead of oakum, and fills in with putty, instead of marine glue, the whole being then painted over, ship carpenter (North of England); see shipwright.

shipwright (wood); ship carpenter (North of England); fits together prepared pieces of timber, according to drawings or plans provided, to form framework, or structural part of ships and boats, by hand, with hand tools; puts side planks and deck timbers on framework, and secures them by hammering in copper rivets, with bolts and trenails, i.e. wooden nails, with a hand hammer, having first bored holes, if necessary, to receive rivets, bolts or trenails with an auger; cauls seams in sides and in deck; shores up ship in dry dock or on slipway (or superintends its shoring up by labourers); superintends hauling of ship on to slipway.

483.—SHOP FITTERS.

bank fitter, bar fitter, beer machine case fitter, office fitter, as for shop fitter.

shop fitter; receives wooden parts or sections of counters, desks, partitions, cupboards, shelves, shop fronts, facias, shutters and other shop fittings or of bank, office, public house bars and bar fittings, which have usually been prepared or partly prepared, i.e., planed, moulded, cut into lengths, etc., by wood-working machinist (486) g.v. or by shop fitter's joiner (474) g.v.; fits and joins these parts or sections together by cutting, dovetailing, morticing, gluing, grooving, planing, dovelling, moulding, planing, etc., according to prepared plans or designs, and attaches grilles, blinzes, door springs, locks and other metal fittings thereto; may be employed either entirely in workshop or entirely on outside work, i.e. erecting in situ, or partly in one and partly in the other.

484.—WALKING AND UMBRELLA STICK MAKERS, BENDERS, DRESSERS.

bender (stick making), gas benders; bends sticks to shape required, e.g. crook or straight handle, by heating them at a gas flame or more rarely, in a kiln of hot sand, and curving round in mould or block of required shape; in small businesses sometimes also does work of straightener, g.v. dresser (stick making); finisher; smooths sticks; sandpapers and varnishes them, and rubs them with pumice, in preparation for polishing, or final coat of varnish.

filer (stick making); files and files handles and stocks, by hand, to give desired shape and appearance.

finisher (stick making), see dresser. fitter, fitter-up (stick making); tapers upper end of stick with a hand knife; fills mouth with hot resin, and inserts tapered end therein; plunges stick in cold water, to harden resin; polishes mouth on a lathe spindle revolving rapidly; also tapers bottom end of stick and attaches ferrule, by driving brass rivet through with hammer.

kilnman (stick making), see straightener.

scorcher (stick making); heats, with a blow pipe, surface of stick, to change its colour or to produce ornamental marking.

sorter (stick making); sorts sticks, according to purpose for which they are intended, i.e. for umbrellas, or walking sticks.

stick maker; general term for workers engaged in any operation incidental to making of walking sticks or umbrellas, or parasols, etc., including bender, dresser, filer, fitter, scorcher, straightener, trapper, stick carver (485), stick ferruler (499), stick moulder (288), stick polisher (489), stick pumicer (489), stick varnisher (499) g.v.

straightener (stick making); filer; straightens sticks by placing them in a kiln of hot damp sand, and then manipulating them in a wooden frame.

trapper (stick making); smooths stem of stick and reduces it to circumference required, with hand tool or by drawing, by hand, through die of trapping machine.

485.—WOOD CARVERS; CARVERS AND GILDERS; PICTURE FRAME MAKERS.

carver, animal; a carver g.v. who carves animals and figures upon furniture and other woodwork, or as separate ornaments.

carver, wood carver; carves designs on wooden articles, e.g. furniture, cabinets, church ornaments, screens, paneling, etc., with hand gouges, chisels, punches and mallet; works, by hand, small portions of carvings or moulding for ornamentation of carriages, railway carriages, tram cars, etc.; clamps pieces of wood to bench, and sketches outlines of design in pencil, balancing effects of light and shade and taking account of wood grain; cuts away wood with gouges and chisels and finishes out surfaces according to effect desired; sometimes specially designated, according to class of work done, e.g. architectural wood carver, cabinet carver, chair carver, ecclesiastical wood carver, stick carver.

carver, compositor; carves designs on mirror or picture frames, etc., made of a composition of plaster of Paris and gum, using a chisel and mallet.

carver, letter; wood letter carver; letter cutter; wood letter cutter; wood type cutter; a carver g.v. who cuts out from wooden blocks with hand and machine tools, large letters used in printing posters, etc.

carver's grinder; grinder (wood); roughs groundwork of carving with a punch.

carver, stock (small arms); a carver g.v. who cuts ornamental devices on grip of gun stock, taking care to keep gun balanced.

compo moulder, compo, compo press head; compositing press, compo moulder; a composition of whiting, glue, and, if required, colouring matter, by hand; puts mixture into hopper head of a power-driven compo moulding machine; passes wooden backing, for picture frame moulding, into machine, which automatically spreads composition on backing and moulds it to desired form with a pressing tool; after composition has been partly hardened, passes it, if further decoration is required, into another machine, fitted with roller die, which impress required decoration upon it; cf. compo press worker (507).

composition frame maker; a picture frame maker g.v. using composition mouldings.

composition glider; a glider g.v. who specialises in gliding composition mouldings.

composition mounter, composition ornaments, composition ornament decorator; applies composition ornaments to picture or other frames, with glue and/or small nails or screws.

composition press man, see compo moulder.

cutter, block cutter (wallpapers); a wood carver g.v. who carves wallpaper designs on wooden blocks for printing wallpapers.

cutter, letter; wood letter cutter, wood type cutter, see carver, letter.

embosser; puts wood, after it has been softened by steaming, in a press, and applies pressure by moving lever so that wood is embossed with a die of required pattern.

embossing machinist, wood embossing machinist; passes strips of wood into a machine fitted with gas-heated top and bottom patterned rollers or dies, which impress pattern on wood, giving it an embossed or carved effect.

fronter; wood, see carver's fronter.

gilder; (i) gilds chairs, picture frames, etc., by coating them with size and whiting, and then with size and oil, applying gold leaf, and burnishing; (ii) decorates railway carriages, sewing machine covers, etc., by gliding, by process described above, by applying brown lacquer with brush, or by laying a paper transfer on work, and passing a heated iron over transfer to cause decorative pattern, inscribed on transfer, to adhere to work, afterwards damping transfer and removing paper.

letter finisher, wood letter finisher; trues up, smooths, polishes and puts final finish, with fine hand tools, upon large wooden letters cut by wood block carver, picture frame mounter and removing paper.

mount cutter, see picture frame mounter.

ornament maker (wood), see carver.

Oxford frame maker, Oxon frame maker; a picture frame maker g.v. who specialises in making Oxford frames, i.e. frames with corners carved in a Gothic pattern.

picture frame fitter-up; fixes picture in mount, inserts and fixes glass and picture in frame; tacks on wooden backing, over which he pastes brown paper; screws in rings for picture cord, sometimes also cuts glass.

picture frame joiner; saws mouldings to required length, for frame, shooks or planes also saws, and glues and nails pieces together to form frame; or glues and nails together mouldings which have been cut to size by machine.

picture frame maker; cuts mitres from stock frame moulding; glues and tacks up to make throughout cheaper class of picture frame, including fitter-up with glass, mount, and back.

picture frame mounter; mends corners and bevels mount, or inner framing to picture, made of cardboard or of thin wood, using a mount cutting knife or machine.

picture framer; assists customer to select frame from stock to suit picture, or to select frame moulding from stock; in latter case makes up frame, see picture frame maker; (if a mounted picture) fits up picture frame, see picture frame fitter-up.

picture frame strainer maker; makes wooden frames on which strainers g.v. stretches canvas or other material; measures wood and cuts to size; cuts and tensions cross battens; haunch mortises in corners to receive tapered and tightening wedges and at centre to receive halter; assembles and glues battens in place.

strainer, picture frame strainer, artist's frame strainer; strains canvas or other material for oil painting, etc., on wooden frames, fastening to edges of frame with short nails; drives wedges into mortises in corners of frames to increase its size and so tighten canvas.

486.—WOOD TURNERS AND MACHINISTS.

aeroplane woodworker; general term for any person engaged in cutting, shaping or assembling together wooden parts of aeroplanes (or airships); is usually a semi-skilled worker only capable of performing one, or a few, machine operations; cf. machinist.

holer and borer (wood wind instrument); combines work of boring and balancing (see rougher and borer, and holer) in workshop where work is not sectionalized; sometimes does work of setter-out g.v.

holster mangle or roller maker, *as for roller maker*.

joiner (cooperage); a stove maker g.v. who passes stave, after it has been hollowed and rounded, into an automatic planing machine, which joints stave, i.e., bevels edge, stacks staves after they have been jointed.

leg maker (piano); piano truss maker, truss maker (piano); cuts and shapes piano legs, using lathes, fret cutting machines, and spindle moulding machines; sometimes also cuts and shapes other wooden parts of piano.

machine attendant, machine feeder, machine minder, machine tender (automatic woodworking machinery); passes wood into machine, by hand; collects wood after it has been processed through machine; sometimes also turns handle of wheel propelling travelling cradle which carries wood past cutters; sometimes inaccurately called machinist g.v.

machine hand, *see* machinist (piano hammer).

machine joiner, *see* machinist, joiner.

machine joiner; passes a piece of wood on its edge along a flat bed and over revolving cutter of flat joint making machine; in this way makes edge of wood perfectly straight, so that joints of sections (e.g. in table top) are quite true.

machine minder (piano sections), *see* machines (piano sections).

machinist, wood cutting machinist, wood machinist, wood working machinist; general terms for two classes of workers who feed and operate machines used for shaping or preparing wood, e.g. turning or drilling, dovetailing, dovelling, four-cutting, morticing, planing, or spindle moulding machine; (i) sets up machine, i.e. makes accurate adjustment of cutters and other parts of machine by hand and sometimes makes his own cutters, especially for spindle moulding machine, by hand filing and forging of cutting parts; feeds wood into machine; (ii) merely sets machine in motion, passes wood into machine, removes finished wood as it issues from machine and stacks it where required, but does not set up machine; sometimes specifically designated, e.g. builders' machinist, cabinet machinist, cratemaker's machinist, joiner's machinist.

machinist (automatic woodworking machinery); (i) is in charge of one or of several automatic woodworking machines, which may be fed by machine attendants g.v.; sets up machines, i.e. adjusts cutters and other parts; sharpens, and, if necessary, makes cutters by hand, with hand tools; (ii) sometimes inaccurately used in sense of machine attendant g.v.

machinist, box making; box maker's cutter, cutter, cutter-out (wooden boxes); a machinist g.v. engaged in preparing wood for use in box making.

machinist (cooperage), cooper's machinist; passes work, by hand, into one of various machines used in a cooperage for planing, shaping, jointing, scoring and chining, tonguing and grooving, champing and pinching, splicing, or iron hoops riveting, and switches on power-drive of machine.

machinist, clamping-up; places door or other articles constructed of wood, after prepared parts have been assembled and glued, on bed or table of machine, which forces parts together; adjusts, by hand, screws which hold article in place, and manipulates screws or levers for forcing parts together.

machinist, crate-maker's; adjusts measuring gauge of power-driven planing machine; sets machine in motion, by moving a lever or otherwise; passes wood for crate-making, into machine, and stacks it after it has been planed.

machinist, door dressing; passes doors, after they have been clamped in clamping-up machine, into a special type of planing machine, fitted with rubbing cutters which plane surface of woodwork.

machinist, joiner; machine joiner; a joiner (474) g.v., trained in manual wood work, who has also acquired a knowledge of woodworking machinery, usually as a piano hand g.v.

machinist, Lendeman; (i) sets up Lendeman machine, which grooves, tongues, and joints wood at one operation, i.e. adjusts cutters and other parts of machine by hand; sets machine in motion, by moving a lever or otherwise; passes wood into machine; (ii) sets machine in motion and passes wood into machine, but does not set up machine.

machinist, match-boarding; watch boarding machine man; a machinist g.v. in charge of a machine (usually a cutter machine) used for cutting grooves and tongues in match boarding; simultaneously machine-planes top and bottom surfaces of board; if a skilled worker, also sets up own machine, as described under machinist g.v.

machinist, mill; saw mills machinist; a machinist g.v. employed in a saw mill where wood is cut, drilled or planed as well as sawn; cf. saw mill machinist (481).

machinist, morticing, *see* morticer.

machinist (piano sections), piano section wood working machinist; machine minder (piano action); feeds hopper of automatic machines with wooden parts of piano actions, to be inserted in them, or to cut them to required size and shape.

machinist (piano hammer); machine hand, wood machinist (piano hammer); glues together blocks or panels of timber, cut by machine saw; and cuts panels thus formed into strips of standard size and measurement, each strip containing material for a complete set of hammers (about 88); sometimes also saws timber into blocks or panels, puts strips of padded wood through a moulding machine, to cut and mould hammers to required thickness; cuts sets of hammers into separate individual hammers in a cutting machine or guillotine, and makes shank, or stem, of hammer, by cutting timber in a machine saw, and rounding it in a moulding machine.

machinist, shaping; shaper; a spindle head g.v. who shapes ornamental "flat" parts of furniture.

maker-ready (wooden bobbins), *see* bobbin maker-ready.

match boarding machine man, *see* machinist, match boarding.

mop stick maker, *as for* handle machinist.

morticer; morticing machinist; a machinist g.v. in charge of a machine used for cutting slots, i.e. mortices, to receive tenons, projecting ends of other pieces of wood cut to corresponding shape, if a skilled worker, also sets up own machine, as described under machinist g.v.

moulder, wood moulder, moulding machine hand, moulding machinist, moulding mill machinist; (i) makes and sharpens, by hand filing, cutters for power-driven moulding machine; sets up machine, i.e. inserts cutters into position by accurate adjustment; sets machine in motion, by moving a lever or otherwise, and holds wood up to cutters, which revolve and cut away superfluous material, thereby reducing article to required shape; (ii) sets machine in motion, and holds wood against cutters, but does not set up his own machine; cf. spindle hand.

mouthpiece cutter (wood wind instruments); cuts out wooden mouthpieces for wood wind instruments, by means of specially shaped hand tools, e.g. chisels, gouges, files, sometimes does work of borer g.v.

oval turner, oval lathe manipulator; a turner g.v. using a lathe fitted with an oval chuck, so that it turns wood in oval instead of circular shapes; brings chairs to bear upon wood as it turns in lathe.

panel planer hand, *as for* planer.

pan maker, pan worker (concertina); cuts, grooves and bases pans (boards to hold reeds or notes of concertina), already planed, by setting in machine, controlled by foot lever; sets tools and gauges as required; trims pan to correct shape, peels, log peeler, peeling machine attendant (match boxes); skilful cutter (match boxes); spindle machine attendant, skilful peeler, skilful peeler; places log of wood in chuck of machine which peels off thin shavings or veneers, to be converted into skillets or making in which to split, for match making; switches on power-drive of machine, and turns a wheel which brings cutter to bear on log as it revolves in machine.

penholder maker (wood); (i) cuts wood into long rods of convenient size for lathes or turning machine in which penholders are made; feeds and operates this lathe or machine, and finishes penholders with sandpaper; (ii) general term for any machine element g.v. engaged in manufacture of wooden penholders.

pick belt maker, *as for* handle machinist.

planer, planer hand, planing machinist, wood planer, wood planing machine operator; wood feeder; a machinist g.v. in charge of planing machine having revolving cutters which remove roughness from timber as it passes over a horizontal bed; if a skilled worker, also sets up his own machine, as described under machinist g.v., and sometimes sharpens cutters, with file and other hand tools.

plank borer (piano); borer holes, by machinery, in wreat plank, for purpose of fixing wreat plate therein; usually done by marker-out (485) g.v. reed maker (piano), action reed maker, hammer out machine, which wood into machines which cut, plane and mould main part of piano action, on to which smaller parts of action are screwed; controls power-drive of machine by means of switches.

read stave maker (lectern machinery); a machinist g.v. who makes wooden stave, or framework, on which reeds are mounted.

reed borer; reed piercer; places reed on a disc, which is made to revolve, either by means of a treadle or by switching on power-drive of machine, slides head stock of machine, with boring bit attached, until bit is in contact with reed, and pierces centre hole therein.

reed maker; a turner g.v. who fashions reeds on a lathe.

reed piercer, *see* reed borer.

ribbon block maker; a turner g.v. or machine attendant g.v. who turns blocks, used for display of ribbons in shape on a lathe or automatic woodworking machine.

ring maker, wooden ring maker; a turner g.v. who shapes wooden rings for curtain poles, etc., on a special lathe; sometimes specifically designated, e.g. cornice ring maker, curtain ring maker.

roller maker, roller turner; a turner g.v. who turns rollers on a lathe; cuts tenons and slots in beaming machine, and fits in metal sections of square section; sometimes specifically designated, e.g. mangle roller maker, rougher, rougher-and-borer; borer (wood instrument); splits log of wood with a hand chopper and selects suitable pieces by experience; roughly shapes blank on a hand

lathe, and bore hole to gauge required, on lathe or wood boring machine; boring operations sometimes done by turner *q.v.*

router (block or roller cutting); takes wooden block or roller and fixes it on bed of power-driven vertical cutting machine, in position required; switches on power-drive of machine, and guides cutter, by means of a hand lever, over work, thereby cutting or routing; cuts wood between metal strips which have been fixed in block or roller by print cutter (267) *q.v.*, to give depth when printing on wall-paper.

sealer; heel sealer, wood heel sealer; *concealer*, heel *concealer*, wood

heel concealer; forms seals, i.e. portion of wood heel in which heel part of boot or shoe fits, by holding wood against power-driven, shaped revolving cutter; switches on power-drive of machine; sometimes also does heel thinning; *cf.* thinner.

setter-out (wood wind instruments); drills key fitting and note holes in wooden tubes of wood wind instruments, by means of a setting-out machine; sets up machine with drilling bits and gauges, and controls machine by levers to drill holes in required places on tube; sometimes done by holer and borer, or by turner *q.v.*

shaft maker (textile machinery), as for beam maker.

shaft turner (golf clubs); a turner *q.v.* who turns wooden shafts of golf clubs on a lathe; usually also shapes heads of wooden clubs on lathe.

shaft turner (spades and shovels), as for handle machinist.

shank maker (piano hammers); cuts long narrow strips of wood, about 1/2 inch square, with machine saw, and puts them through a mandrel to round them, to make shanks or stems of piano hammers.

shaper; set machinist, shaping.

shuttle block cutter; cuts out blocks of box or other hardwood in shuttle maker *q.v.*, on file machine saw.

shuttle maker; secures prepared blocks of hardwood in a power-driven combined boring and grooving machine, which bores out holes at each end of shuttle; hollows out oval grooved hollow in centre of shuttle, between holes already bored out, either with hand tools or in specially adapted machines; sets machines in motion by moving levers.

shock block maker, **shock block maker**, as for handle machinist.

skillet chopper; operates skilled chopping machine, which reduces to skillets (i.e. small thin flakes of wood, used for making match boxes), shavings or veneers peeled off logs of wood by peeling machine attendant *q.v.*; clamps end of pile of shavings in skillet chopping machine at end of bench on which they are piled, allowing ends of shavings to protrude a measured distance beyond cutters of machine, moves lever causing cutter to descend and cut shavings into skillets; piles skillets on trays, ready to be used in making match boxes.

skillet machine attendant, **skillet peeler**, *see* peeling machine attendant.

spade handle maker, **spade and shovel haft or tree maker**, as for handle machinist.

spigot maker, **spile maker**; turns, on automatic or gauge lathe, wooden pegs (spigots) which control flow of liquids from casks, etc.

spindle band, **spindle machine band**, **spindle machinist**, **spindle moulder**; a moulder *q.v.* who feeds and operates a power-driven vertical spindle moulding machine; makes and sharpens cutters by hand filing, for this machine; sets up machine, and holds wood up to cutters, which revolve and cut away superfluous material, reducing article to required shape.

spittle maker (*Herfordshire*), as for handle machinist.

split cutter (match); cuts splints, i.e. match stocks, in a machine, from shavings or veneers peeled off logs of wood by peeling machine attendant *q.v.*; *cf.* skillets chopper.

split machine attendant, **split peeler**, *see* peeling machine attendant.

spool blocker; puts timber on face plate of blocking machine, and brings circular saw into contact with timber, in required position, by pressing a treadle lever; switches on power-drive of machine, which simultaneously cuts out spool or bobbin, and bore a hole therein with blocking tool.

stale maker, as for handle machinist.

stave maker; (i) a cooper's machinist *q.v.* who makes pieces of wood, roughly cut to shape of staves for casks or barrels by hand sawyer (481) *q.v.*, into one of three successive machines (following, rounding and jointing) used for shaping staves; (ii) a machine by means of levers and switches; (iii) a wood turner *q.v.* who turns police batons, ladder rungs (sometimes called staves) and other staves, on a lathe.

stocker, **stock maker**, **stocking machinist** (guns); holds piece of wood from which gun or rifle stock, butt or fore-end is to be made, against cutter of a profiling machine, i.e. a machine fitted with a moving cutter which follows outline or profile of article to be cut, or roughs out blank of gun or rifle stock, etc., with a hand, circular or hand saw and a planing machine; *cf.* stocker (416).

stock maker (wheels); a wood turner *q.v.* who turns hubs of wooden wheels and shod them ready for reception of axle and axle box.

stopper maker (wood), **alright stopper maker**; turns hardwood bottle stoppers on a lathe; mills and screws ends.

tenon should maker, *see* turner, fringo mould.

tenoner, **tenon hand**, **tenoning machinist**, **wood tenoner**; a machinist *q.v.* in charge of a power-driven tenoning machine, which shapes prepared pieces of wood to form tenons, or projecting tongues to fit into mortises, or holes of corresponding section, in other pieces of wood; if a skilled worker, also sets up his own machine (tenon machine); and sometimes sharpens cutters of machine with file and other hand tools.

tent pole maker; passes wood into an automatic rounding machine; switches on power-drive of machine, and turns handle of machine causing pole to travel through machine.

textile broach maker; a wood turner *q.v.* turning a spool or broach (Scotland) for use in textile manufacture.

thinner, **heel thinner**, **wood heel thinner**; reduces thickness of lip, i.e. front edge of seat, of wooden heel, by holding heel against power-driven, shaped revolving cutter; switches on power-drive of machine; turner usually does by sealer *q.v.*

topper (wood heels); holds top, i.e. the end of wooden heel, against revolving cutter to smooth it; marks edge of top by holding heel against a similar cutter; switches on power-drive of machine.

trawl shaft turner, as for turner.

trenail maker; trenails maker; turns, on a gauge lathe, trenails (trenails), or hardwood pins, used for securing chairs to railway sleepers, dock planks to ships' timbers, etc.

tree turner; a turner *q.v.* who shapes wooden handles of spades and shovels on a lathe, from square piece of ash plant.

trennel maker, *see* trenail maker.

truss maker (pianos), **piano truss maker**, *see* leg maker.

turner; wood turner, wood turning machinist; secures a piece of wood between "centres" of a lathe, which may be of various types, and reduces

it to a circular or oval section by applying chisels or other hand tools to it as it is made to revolve in lathe; often specifically designated according to kind of wood used, e.g. hardwood turner, as according to purpose, for which article is intended, e.g. boot last turner, bowl turner (textile machinery), spool turner, wooden spool turner.

turner, **brush**; brush wood turner; a turner *q.v.* who fashions wooden backs and handles of brushes and brooms, from rough blocks produced by sawyer (481) *q.v.*, usually on a vertical spindle moulding machine or on a lathe.

turner, **fringe mould**; fassel mould maker; a basket *q.v.* who shapes, from wooden blanks, on a gauge lathe, small wooden drops or wooden tassels, used for attachment to blind cords or to form foundation of ball fringes.

turner (musical instruments); takes instrument or fitting thereof in rough form, as fashioned by rougher and borer *q.v.*, and shapes it by holding cutting tool against it, as it rotates on lathe; also turns socket joints; sometimes also does work of rougher and borer, and of setter-out.

turner, **pipe**; bowl; for maker, bowl turner (tobacco pipes), pipe after maker; cuts wooden bowls and stems of tobacco pipes to shape on a lathe, which has an inner boring blade, and two cutters curved cutters.

turner, **roll**; barrel turner.

turner (rollers for barrel organ); turns revolving cylinder of barrel organ, as roughly fashioned by carpenter (474) *q.v.* in a lathe, and glues cartridge paper thereon ready for music maker (648) *q.v.*

turner, **turner**, **turner** *q.v.* who fashions ornamental chair or table legs, and other spiral work, on a lathe.

turner, **twist**; a wood turner *q.v.* who faxes wood in chuck of semi-automatic machine fitted with a revolving cutter which turns it, and switches on power-drive of machine; turns wheel attached to machine, by hand, to produce twisted effect on wood after turning, for use as Jacobean fittings for furniture, etc., unless machine is fitted with automatic device for twisting as well as for turning; adjusts machine by hand, fits and adjusts cutters.

turner, **wood block**; cone maker, wood cone maker, or block maker; makes wooden blocks or cones on which hats are shaped, using lathe, spoke-shave, etc.

turner (wood heels), **heel turner**; shapes backs of wooden heels, after they have been banded on a vertical moulding machine.

turner (wood wind instruments), as for turner (musical instruments).

veneer cutter, **veneer maker**; cuts veneers (very thin sheets of wood) from logs, either with a long knife, mechanically-driven, which revolves round log, or with a special saw, or with a special saw adjusted to cut veneer of precise thickness required.

vertical spindle moulding machinist, *see* spindle band.

wooden spill maker; receives long sheets of veneer, which have been cut from log of pine wood, and passes them into a machine, which uses an automatic knife edge to trim into spiles of required dimensions.

wooden spoon maker; a wooden ware maker *q.v.* who specialises in cutting, shaping and turning wooden spoons, partly by hand, with woodworking tools, and partly by machine, e.g. turning bowl of spoon on a lathe.

wooden ware maker; a wood turner *q.v.* who specialises in turning wooden bowls, cups, etc., from rough blocks of a lathe, and finishes them with hand tools and rubbing with sandpaper.

wood facer, *see* planer.

wood heel shaper, **wood heel spindle band**, *see* broussier.

wood turner, **wood turning machinist**, *see* turner.

498—OTHER SKILLED WORKERS.

arrow maker; pares one end of arrow length of specially seasoned red dead red; puts on and rivets pointed metal sheath; makes three slots at other end of arrow and glues in three pieces of feather; makes notch in feathered end to receive bow string; smooths and polishes, all by hand, with wood-working tools.

back fitter, back maker (piano and organ); glues together bracing and general structure of back to take sound board and iron frame.

haker's peel maker; makes haker's peel, a kind of wooden shovel, with wedge-shaped blade, for shovelling dough into oven; cuts blade with gluing, cuts or shapes it by hand; makes handle on lathe or trapping machine, and fits handle and blade together.

hampbo furniture frame maker, hambo furniture maker; after-up of hampbo furniture; assembles parts of hampbo furniture, prepared by hampbo machinist (481) g.v., by hand, using woodworking tools, and boring, filing, screwing, gluing or nailing as required.

header (carriages and coaches), body header; fixes on heading (wood or metal) to cover joints, or for decoration in coach building.

beam maker (piano), beam man; makes beam on which butt and jack sections are screwed together; assembles (453) g.v. in making piano actions, by sawing, recessing, planing, etc.

beetle cutter, beetle maker; *bleeker's stamp maker*; cuts, from hard wood by hand, and shapes heads of finishing mallets (*beetles*) used in finishing textiles.

bellows maker; cuts out and sews or rivets leather parts, fits metal parts if required; cuts wooden parts to correct size and shape and fits parts together to make complete bellows; works by hand, with hand tools.

bellows maker (harmonium); cuts wood to required size and planes it; glues and screws wooden parts together and attaches leather to frame; screws brass hinges in place; varnishes and fixes bellows to harmonium case.

bellyer, belly maker, belly man (piano); sound board adjuster, sound board hand, sound board maker; cuts, planes and glues together thin boards to form sound board (belly), and fits with great accuracy, sound board, bridges, fillets and back bars (or ribs) of piano.

header, bent timber maker, bent timber man, bent wood maker (coach), bent wood worker, see timber tender.

hinder's board maker; makes boards for use of book binders; or for drawing board maker.

bleasner's stamp maker, see beetle cutter.

block floor layer; lays floors in patterns, with blocks of standard dimensions, generally held in position with mastic preparation.

block maker (wall paper); builds up and glues together several layers of wood, forming wooden blocks used in wallpaper printing.

block maker (wood); cuts out frame i.e. side pieces, and fillets, i.e. connecting pieces, for shape blocks from pieces of wood, by hand, using hand tools, receives wheel or share (usually ready made of iron or lignum vitae), and assembles whole-frame, fillets, and wheel or share, with bolts and screws.

blower-off, oak tester; tests repaired cracks by admitting steam or hot water through bung hole, inserting temporary bung, and reports any escape of steam or leakage to trimmer (477) g.v., who marks defective staves, etc., for repair by cooper (477) g.v.; sometimes varnishes and paints top and bottom chimes or rims and bung holes, etc.

bobbin board maker, creel board maker; takes bobbin board or creel

board, prepared by joiner (474) g.v., and drills holes in it, by machine, to hold bobbins or pins in textile winding and spinning machinery; presses a lot step, i.e., earthenware lining, into each hole drilled to minimize friction.

bobbin end prasser, wood bobbin end presser, wood bobbin end stamper; glues end presser (bobbins); receives bobbins, ends of which have been turned and bevelled, i.e., reduced to smaller diameter than that of rest of bobbin, and presses on to these bevelled ends, in a clamping machine, wooden flanges, having a centre hole, called gland ends; in small shops, makes his own gland end; for this purpose he takes circular pieces of wood, with centre hole, already prepared; glues one side of piece; puts two pieces together in pairs, with glued surfaces touching, threads pairs along an iron bolt, fixed in position; when bolt is tight, screws pairs tightly together by turning a nut at end of bolt; and leaves them until glue has set; then uncovers pairs of glued ends, removes them from bolt, and uses them as described above.

bobbin tester; places wooden bobbins, one at a time, on mandrel or spindle of a lathe, which is set in motion, and, as they rotate rapidly, tests them by observation and with a shile, or more usually by hand, to ensure that these true, and are in no way faulty; cf. bobbin slow tester (480).

boot last maker; last maker; (i) shapes blocks of wood, with last-maker's knife, sandpaper, with sandpaper, and attaches metal plate to bottom; (ii) general term for worker engaged in any of the processes of boot last making where (as is usual) work is subdivided, including converter (486), finisher (486), plainer (483), spring finisher (488), toe and becker (488), turner (486) g.v.

boot tree maker; cuts block of wood to the shape of a boot with saw, and shapes it with hand knife, spokeshave or shisel; then finishes with sandpaper, also shapes wedge which is inserted between front and back parts of tree to strain leather.

bottomer (chairs—not case), chair bottomer; adjusts bottoms of chair legs to prevent rocking, by sawing or rasping to one level; sometimes does by cabinet maker (473) g.v.; cf. bottomer (same) (473).

bottom maker (textile machinery); cuts out bark from fallen trunk of tree by hand, using an adze; roughly cuts trunk into cylindrical form, using axe and adze, ready for bowl turner (480) g.v.

bow maker (archery); bowyer; (i) pares length (6 to 7 feet) of seasoned yew wood with special spokeshave, from middle to each end; and sandpapers wood and makes notch at each end, for bow string; carves hand grip of bow with plane, lathe, etc.; (ii) makes bow by taking two lengths of yew, half bow length, joins them by "duck joints" of small pieces of wood at centre and then proceeds as above; smooths and polishes.

bow maker (violin), violin bow maker; forms backs of violin bows from pieces of wood, by hand, using hand tools, and assembles other components, including hair, to make complete bows.

bowyer, see bow maker (archery).

boxwood worker; turns pieces of boxwood on a lathe, planes and cuts them as required, by hand, with woodworking tools, to make tool handles, chess men, scales, rulers, etc.

brail flier, brail framer; receives bowl, after it has been cut by bowl

maker (483) g.v., and turns, so far as turning is possible, by wood turner (486) g.v., and bolts it against cutters of a power-driven wheel, to frame or smooth it; files neck of pipe and knots, by hand, with a file.

brush wood finisher; shapes wooden stocks of brushes, by hand, with spokeshave and bench knife.

bush hand; borer or drills hole in top of oak with hand auger; points bush or nozzle, and screws it tightly into bored hole with a two-handed boring tool; sometimes also repairs bushes, nozzles; cf. nozzle repairer, butter box maker; a scale board box maker g.v. making scaleboard boxes for butter.

butter cutter maker; shapes, with hand and hand saws, flat wooden cutters or patterns for dividing butter; planes and sandpapers.

butter marking plate maker, butter mould maker, butter print maker; turns, on lathe, block, for marking butter with a pattern, which is afterwards carved by hand, cf. cutter (482).

camp equipment maker; assembler; folding wooden framework of articles of camp equipment (bedsteads, chairs, washstands, etc.) and attaches canvas fittings to them.

camp stool maker; assembler; folding wooden framework of camp stool and nails on, with brass-headed nails, pieces of canvas or carpet, to form seat.

oak tester, see blower-off.

cattle crib maker; cuts pieces of wood, usually elm, to required dimensions and fastens them together to make racks, mangers or feeding troughs for cattle.

chair shaper; shaper; fashions frames of chairs to desired shape, by hand, with spokeshave and rasp.

chequer (small arms); cuts a cross-hatched or chequered pattern on wooden fore-ends and butts of guns and rifles by hand, using a small steel-toothed tool.

cigar box maker; general term for worker engaged in one of the processes of making cigar boxes, where (as is usually the case) work is subdivided; may be either (i) a sawyer (484) g.v. cutting furrows in thin boards with circular saw, (ii) a wood working machinist (480) g.v. planing boards on planing machine; (iii) a man cutting them into small pieces, as required; (iv) a man (or a woman) nailing together these pieces; or (v) a woman lining box so made, with paper, using brush and paste, see cigar box liner (509).

cleaver ("cricket bat"); fixes in vice, roughly shaped blocks of seasoned willow wood and draws two-handed knife over surface, paring off wood, to shape blade of cricket bat.

clug block maker; splits small logs of alder wood into rough blocks for use of clug sole cutter g.v., using an axe or mallet and a splitting tool.

clug sole maker; general term for any worker operating woodworking machines for making clug soles, including band sawyer (483), bottom leveler, rounder, shaker, hollerer, gripper, and sandpaperer g.v.

coat hanger maker (wood); general term for any person engaged in making coat hangers, i.e. either cutting wood to shape with a hand saw, or assembling parts, or varnishing completed article with a brush.

creel board maker, see bobbin board maker (wood).

cricket bat handle maker; assembles strips of cane and thin strips of rubber, planes cane, by hand, to correct dimensions and glues whole together; turns handle on lathe and cuts spine out.

cricket bat maker; cuts wood roughly to shape and size of blade of cricket bat; turns it to shape on a lathe, gives final shape to blade by hand paring to ensure correct balance, and presses it in a hand or power press; assembles cane sections, rubber slips, etc., and glues them together; turns them on lathe and cuts to shape of handle; splices and glues handle to blade; sandpapers and finishes surface; binds handle with waxed hemp on a foot or power lathe.

cue maker, billiard cue maker; receives handle or butt end and cue, which has been roughly shaped and tapered by wood turner (480) g.v., and glues it there by sawyer (481) g.v., and glues cue to butt; glues together sections on butt; cuts off ends to correct length, hand-planes whole, and sometimes sandpapers it and glues on leather tip, but this is more usually done by finisher (490) g.v.

currier's beam maker; takes large pieces of sawn tree trunk, and shapes it with adze, plane and sandpaper to make currier's beam, i.e. wooden block over which hide or skin is laid for dressing.

derrick maker, see mast maker, wooden.

dolly maker, see maiden maker.

drawing board maker; saws, planes, grooves and tenons pieces of wood; inserts stiffening pieces, and finishes to make drawing boards.

dresser-off (for sails); roughly squares circular legs, by hand, with an adze.

ebony handle maker, as for hand saw (wood).

ender-up (textile machinery); finishes off legs and pegs (used as risers or sinks in weaving looms), by sand papering and varnishing.

engraver's block maker (wood); makes wood engraver's blocks, usually from box-wood, by accurately cutting with fine machine saw, oblongs of standard sizes from sections across box trees; makes compound, i.e. large blocks, by slotting, drilling and bolting together area blocks and half-stanza box maker; assembles and nails together parts of light boxes, prepared by sawyer (481) g.v.; cf. fancy box maker (554).

finisher (action rails), action rail finisher; hammer rail finisher; covers action rails (known as "hammer rest rail" and on "half blow rest" respectively), as received from hammer rail maker (480) g.v. with felt, and joins them together with hinges and screws.

finisher, coffin; fits meetings, plates, handles, etc., to coffin with screws; usually also polishes outside of coffin, see polisher (478), and lines inside, see coffin trimmer (508).

finisher (coopering); (i) shaves and scrapes barrel of cask after it has been built by cooper (477) g.v.; may also chamfer or chime ends of staves to form top and bottom rings and affixes end hoops; (ii) completes cask or barrel by putting on permanent iron or wooden hoops.

finisher (small arms), see maker-off (small arms).

fitter-up of bamboo furniture, see bamboo furniture maker.

fret work; makes articles of fretwork throughout, cuts, or fret, cutter (481), and fixes fretted designs upon furniture, etc., with nails or glue.

glove stratcher maker; cuts glove stretchers from beech or boxwood, by hand, and shapes with knife or cutter.

glue and presser, see bobbin and presser.

glue (brushes); attaches backs to filled brush stocks, by brushing back with hot glue and fixing bristles in clamping frames till firmly set.

glue and joint maker, glue-up; (i) shoals (i.e. plane, sand, glue) and joins together various parts of furniture, etc.; (ii) applies glue with brush to prepared surfaces of wood, pieces in cramping machine, and forces together by adjusting screws.

grader (wood heels), heel grader, wood heel grader; cuts V-shaped pieces from upper end of wooden heel with small circular saw, holding heel against guides.

grid maker, wood grid maker; cuts wood to sizes required on circular saw or fastens together pieces of wood already prepared

to make "grid," i.e. wooden frame containing openings to admit air or to allow escape of water; may merely glue laths to frames, or groove and loose parts of grid before joining together.

trip maker, bayonet grip maker; (i) cuts hardwood with circular saw, and shapes it on spindle mounting; (ii) makes bayonet handles for fixing on bayonet tangs; finally trims them on abrasive wheels; (iii) passes wood into automatic machine which cuts and shapes it; switches on power-drive of machine, and adjusts machine as required.

tripper (dog sole); cuts out groove round dog sole, for attachment of upper, on a wood cutting machine.

guitar maker; makes guitars of wood, using hand and machine tools; cuts sections to shape and glues them together, and, after finishing surfaces, mounts keys, bridge, strings and other accessories or ornaments.

haft maker, see handle maker.

hammer shifter; fits new wooden shafts in old and new hammers, makes head secure by driving hard-wood wedges into handle; sometimes makes shafts or handles for hammers, either by turning on a copying lathe, or with a hand spoke-shaving tool, see handle maker. Some dresser may also make and repair rivet and tool boxes.

hancie maker (wood); haft maker; makes handles for tools, leopolds, etc., throughout, largely by machine, but usually with some additional hand work, e.g., sometimes files handles, or dresses them with a spoke-shave, plane, adze or chisel, drills holes for fitting to tangs, squares and finishes ends of spade handles to receive blades, etc.; cf. handle machinist (480).

hatchet man (coal mines); (i) see timber cutter; (ii) sharpens pit props by cutting point with small hatchet; (iii) prop sharpener (481); head-up (casks) fits and drives in head after cask has been cleaned.

head maker (casks); makes head throughout, i.e. combines work of head cutter (481) and head shaper v. and head shaper (casks); rounds, bevels and shapes heads, as received from cutter, with chisel and other hand tools, to fit ends of casks or barrels; may level edges by holding in a bevelling machine.

heel maker, see wood heel maker.

heave dresser, heave maker; a handle maker g.v., who makes handles or heaves for axes, adzes, picks, etc., from rough wood, with planes, adzes, chisels, spoke-shaves, etc., and glass-paper.

heelower (dog sole); shapes cast or top side of dog sole on a wood cutting machine.

hooper-off (casks); completes wet cask or barrel by putting on permanent iron hoops; drops welded iron hoops (sometimes) of pipe size over cask and hammers into place with blunt chisel; knocks off temporary hoops.

hoesery shape maker; partly turns, and then shapes with hand tools, hoesery shapes used for hoesery finishing.

hurdle maker; splits timber (generally chestnut); selects and prepares poles or other small round timber for uprights; mortises them to receive cross rails; drives in cross rails and pegs them, and puts in cross braces; usually works in a workshop.

hurdler; receives saplings, usually of willow or ash, and strips them of their small branches; splits sapling with hand hook; takes out stout pieces of split wood, sharpens them, at one end and bores holes in them, for insertion of cross pieces; inserts thinner pieces of wood as bars, in holes so made; binds structure with rope; selects piece of wood nailed diagonally across bars; makes fences of hurdles to make; usually works in wood yard of farm or sheltered corner of copse; cf. hurdle maker; in remote

country districts, cuts own saplings and makes hurdles at home.

tinemaker maker; saws and joins wood to make outside frame of incubator, wooden trays, partitions, etc.; lines frame with tin and inserts lamp and other fittings.

tinplate band (organs), general inside band; engaged in workshop where organ builders specialise in different branches; makes and fits up action controls, sound board and similar work appertaining to inside of pipe organs; organ builder (478); makes sets of key makers (pianos); makes sets of piano keys by gluing together several boards of bass wood, and marking out scaling; glues on chasing, i.e. thin strip of wood that goes from end to end of keys; glues on ivory, celluloid, or galahiti for keys; cuts out keys by machinery; bores holes for centre and front pins and bushes holes with felt; glues black pieces on "sharps," and inserts leaden weight at end of each key to give balance in process; are sometimes sub-divided.

key maker (organs), organ key maker; makes "frames" and "panels"; bores holes in frame and inside of panels; files (scry) and files sharps; cuts apart panels, and inserts pins; also fixes individual keys in correct position.

lapboard maker; cuts, shapes and planes, on wood working machines, lapboards, i.e. boards, which clasp folded; usually covers boards with paper.

last maker, see boot last maker.

lath cleaver, lath render, lath river, lath splitter; lathes render; splits timber, already cut to required length, into laths, used in plastering, by hand, with an axe.

lattice reader, see lath cleaver.

leg block maker (pianos); works on a spindle, wooden block attached to a spindle; glues parts together and veneering; usually done by part maker (478) g.v. lift maker; fits together or builds cases or cages used in carrying goods; passes them up or down a shaft; work similar to that of coach builder (479) g.v.

maiden maker; dolly maker, peggy maker; saws with circular saw, and turns on lathe, wooden blocks, free sharp handles and pegs for "dolly" of working machine; horse hole for pegs and fits them all together.

maker-off (small arms); feister; finishes wooden fore-end and stocks of cut and driven rifles; does spoke-shaving, rasping and buffing.

mallet maker; makes wooden mallets on woodworking lathe and with hand tools.

mandoline maker, as for guitar maker.

marker-off, marker-out; marks wood, with pencil, to shape and size required, indicating where it is to be cut, bent, etc.

maat maker (wooden), maat and spar maker; derrick maker, spar maker, yard maker; shapes masts, spars, yards, and derricks from rough trunks of wood, with chopping axe, adze, etc., to required dimensions; sometimes assisted by shipwright (wood) (482) g.v.

measure maker, rim measure maker; steams thin pieces of hardwood in a steaming chamber; bends them by hand, over a jig or mould, clamping them to a wooden frame; inserts screws; cuts circular pieces for bottoms, with hand saw or hand saw, and fits them into cylinder formed on jig; rivets whole together by hand, or on crivette machine; sometimes specifically designated, e.g., corn measure maker, fruit measure maker.

measurer (timber), see timber measurer.

modeller (wood), see wood model maker.

needle, repaire (cooperage); a bush band g.v. who recovers old bushes or muzzles from repaired cask with a hammer and chisel, inserts new bush, and screws it into hole with a two-handled bashing tool.

oar maker, boat oar maker; *see our and oar maker*; receives *our* form, i.e. a fir pole, usually imported already roughly cut, and then it cuts, i.e. draws shape of *our* there in chink; saws it to shape indicated, with a circular saw, or cuts it down, by hand, with a two-handled knife and chopper; planes it with hand plane; nails leather collar or beam in position, to reduce friction; when *our* will rub on rowlocks, with copper nails, and sometimes nail strip of copper on edge of blade; usually done by mast maker, *q.v.* or block maker *q.v.* outside fitting; sometimes and assemblies, during removal, heavy furniture made in sections; screws and numerous bolts, hinges etc.; may sometimes also do work of furniture porter. (470) *q.v.*

pan maker (harmonium); *only wood to also for "pan"* (reed wind-chest for harmonium); glues frame together, and makes slots, by boring holes in pans, over which reeds are fixed by knivel *q.v.*, *cf.* *pan maker* (concertinas) (480).

parquet flooring maker; makes *parquet* flooring which has been cut out by circular saw, or fret saw in case of intricate design; operates wood-working machines which groove and tongue edges and plane surface of *parquet* sections ready for laying; or makes up *parquet* panels from sections and binds together with glue.

parquet floor layer; wood floor layer; lays prepared *parquet* flooring, by gluing or nailing, with grooves, by planes top, and scrapes with iron scraper; applies wax polish, or sometimes, stain or French polish.

patent floor layer; lays floors with patent composition, usually containing some mastic mixture, sand, etc.

pattern maker (wood scales); *see wood scale maker* (piano).

peggy maker; *see maiden maker.*

piano bracket maker; cuts with saw, and shapes with chisel, plane, etc., wooden candle brackets for pianos; usually done by part maker (473) *q.v.* typical shaft, glass; grinds and polishes surface of pick handle on glazing wheel on machine, where abrasive material is smeared on leather face of wheel.

plate lock stocker; recesses and bores wooden blanks which encase working fittings of plate or stock locks.

poker worker; haws in *haws*, by tracing with heated tools usually on wood but also on leather, cardboard, etc.; uses type of bending iron for repeat or standard patterns.

pole builder; trims and strips stems or trunks of trees for use as poles for telephone, telegraph, or other electric wires; mounts cross trees, by checking them in and bolting them into position; fixes, by each screw or other screw, step brackets as required, for climbing; usually done by carpenter or joiner (474) *q.v.*

propeller maker, propeller shaper; receives wood for aeroplane propellers, which has been cut by sawyer (481) and by woodworking machinist (486) *q.v.*; glues several thicknesses of wood, as prepared, together, taking care to lay each thickness opposite ways of grain from the last; planes whole in a band-manipulated press until glue is set; cuts and trims to shape with saw, plane, spokeshave and other hand tools; polishes whole with sand or glass paper, ready for French polisher (475) *q.v.*

pulley block maker, pulley maker, or for block maker (wood).

racquet frame maker; *see tennis racquet frame maker.*

raiser (coopering); *cooper-up, tenon-raiser*; rounds and stands them up in first hoop to form oak or barrel, ready for trusser (477) *q.v.*

rake maker; turns, cuts and fits together component parts of wooden hay rakes.

rester-up, *see* raiser.

rope block maker, or for block maker (wood).

rougher (dog sole); bottom leveler; holds block of wood, intended for dog sole, against revolving cutters of smoothing machine to remove roughness.

rounder (dog sole); *see side cutter rule finisher;* passes rule, which has been prepared by rule framer *q.v.*, holds a machine, which scores marks thereon, indicating inches, millimetres, etc.; punches numbers thereon with hand punch and hammer; rubs, i.e. sandpapers it; polishes it with hand pad, and adds brass parts (if any).

rule framer; takes piece of wood, usually boxwood, for better class of rules, and saws it to correct length; planes top, bottom, edges and ends, by hand with a plane, or on planing machine, and bevels one or both edges, by hand or machine.

rustic carpenter, rustic wood worker, rustic work maker, rustic worker; makes garden seats, garden tables, and etc., from wood in a rustic style, i.e. wood that has not been stripped of its bark or subjected to any machinery; usually a rough carpenter (474) *q.v.*

saddle maker; shapes wooden shoes from solid wood, with power cutters, finishing with hand tools.

saddle tree maker; constructs wooden base for saddle trees by hand, using woodworking tools; glues component parts together; covers with canvas, and, if required, sandpapers and varnishes completed work.

seashell board maker; assembles and sticks together veneer or chip wood, previously cut to proper sizes, with paper strips and paste, to form box; *cf.* cardboard box maker (584).

scale box maker; (i) makes fitted wooden box which holds weights for scales; (ii) saws, planes and joins wood to form box portion of scales.

scale tang hatter; makes wooden scales, i.e. handles for butchers' knives and for cheap household knives; puts scales on tang through holes, drilled by a machine; then polishes scale and end of tang on stone grindstones of varying fineness till they are perfectly smooth.

scall maker, or for our maker, except that wood used is generally spruce.

scythe shaft maker; bends shafts for scythes to shape under steam pressure (see shaft bender), turns handles on lathe and fits into shaft.

shaft bender; (i) *free bender;* bends shafts or handles for scythes, hoes, etc., by placing in steam chamber to soften them and then bending to shape and clamping tight in a shaping or bending vice (ii) *shaftman;* makes shafts for light carriage by bending timber to shape by steam process, usually done by wheelwright or coach builder (475) *q.v.*

shaftman (carriages); (i) *see* shaft bender; (ii) shapes cart, carriage or van shafts from solid timber, by hand, with adze, plane and other hand tools and fits parts together, with necessary fittings, hinges, etc.

shankner (dog sole); cuts out instep in dog sole, on woodcutting machine.

shaper, *see* chair shaper.

sharp gluer (piano); glues, by hand, ebony sharps on to keyboard.

sharp maker (piano); cuts ebony or other hardwood, by fine machine saw, to size required for piano or organ sharps; cleans and polishes them on sandpapering machine ready for gluing on to keyboard.

shuttle block presser; presses hardwood shuttle blocks in hydraulic press, to increase density of wood.

shaver cutter; rounder; shapes dog sole, by cutting outline of sole with a wood cutting machine.

sieve maker (wood or cane); (i) bends and nails wooden frame of sieve, attaches gauge, or works wire through to form mesh; (ii) makes, by hand, a

kind of basket called a "sieve," of woven willow rods, for packing apples and other fruit etc.

sole cutter (clog), sole maker, clog sole cutter; shapes wooden blanks or blocks, in readiness to be attached to clog upper by clog assembler (415) *q.v.*; uses heavy band knife, weighing 2½ lbs., known as stock, bollow, or gripper.

sound board adjuster, sound board hand, sound board maker (piano); *see* bellier.

spade and shovel shaft finisher; uses hand tools to cut and shape ends of standard handles, made by handle machinist (486) *q.v.*, and to fit them to spades and shovels; fastens shaft to spade with rivet.

spar maker, *see* mast maker (wooden).

spokehave maker; forms spokehave grips from barwood on wood turning lathe and wood cutting machine; inserts blades and cuts tool with quick-drawing circular saw.

spring fastener (boot last); last spring fastener; bores holes in lasts, by machine, and fits spring for fastening together parts of last.

stocker (gun); stock maker; makes stocks of guns or rifles, by hand, from pieces of walnut wood, which have previously been roughly shaped; fixes them to rifle or gun, chiselling and cutting "head" of stock (where stocks union of spurs) with great accuracy to ensure perfect fitting of rifle or gun mechanism; *cf.* stocker (486); sometimes specifically designated, *e.g.* gun stocker, pistol stocker, rifle stocker, shot-gun stocker.

stock flier, stock finisher, stock machinist (gun); finishes on sand wheel or leather buff, surfaces of rifle or gun stocks, and fore ends, in readiness for varnishing.

stock maker, *see* stocker.

tally maker; wood label maker; saws wood into thin boards, and smooths on planing machine; cuts boards into small pieces with circular saw; uses balance scale, and sets out point on one end by holding against guide in machine.

tannia racquet frame maker; racquet frame maker; bends strip of wood to shape of tennis racquet frame by application of steam and by use of wedges; rasps, files and planes frame thus bent; smooths it with spoke-shave and sand paper.

tennis racquet polisher; rough polishes tennis racquet frame, by hand, with sandpaper, before stringing, and finally polishes it, by hand, after stringing, with spirit varnishes and pads.

timber bender; bender, bent timber maker, bent timber man, bent wood maker (coach) bent wood worker, wood bender; (i) places wood in steaming vessel and bends it round shaped blocks, fixing it in position with clamps or wedges; (ii) *a* carpenter (474) *q.v.*, or *a* cooper (476) *q.v.*, who fits selected timber into joints or frames, and places the frame, with the timber inside, in a chamber into which steam is introduced, thereby giving timber permanent set or bend for use in shafts, felloes, body moulds and frames.

timber cutter; hatchet man; cuts, with hatchet or saws, timber to required size for props, sleepers, choirs, etc., at surface of coal mine; *cf.* sawyer (481).

timber fender; a timber expert, whose duty it is to find suitable wood in timber yard or store for special work.

timber hewer, *see* timber squarer; *cf.* timber feller (116).

timber measurer, wood measurer; takes dimensions of timber, using calipers and tape measure, and calculates amount of useful wood in bulk; marks timber and records quantities in book.

timber selector; (i) chooses timber for purchaser, in timber yard; (ii) decides for what purpose various kinds of timber in stock are suitable; judges quality and degree of maturity.

timber squarer; timber square; roughly squares timber with an adze; cf. timber square (481).
tee and beeler (foot lath); last toe and beeler; shapes toe and heel of last with last maker's knife, after it has been turned by machine.

tray maker (wood); cuts out pieces of three ply and other wood for boxes and sides; joins them together with tenon joints and screws to form wooden trays; sometimes done by cabinet maker (473) g.s.

tree bender (spades and shovels); see shift bender.

trills maker; nails or rivets together laths to form trills, i.e. a kind of network, of diamond or square pattern.

trimming board maker; shapes trimmings board, used in upholstery trade, by hand, with woodworking tools, working wood endways of grain, to prevent cutting knife penetrating.

trug maker; makes by hand, using woodworking tools, boat-shaped wooden basins, for use of gardeners; using thin boards of hard wood split by hand and bent; nails stridge on to wooden frame-work.

veneer drier; takes charge of stock of veneers, dries them in heat for hours, and makes them perfectly straight between presses.

veneer matcher; selects pieces of veneer whose grain and natural markings will accord well together; takes a number of pieces, so selected, together, and cuts them to required shape and dimensions, with hand or band saw; glues them on surface to be veneered, e.g., piano panel, table top; places whole in press, with heated sine sheets to keep glue plastic while wood slowly sets, and screws press down with hand screw, removes work from press when set and scrapes surface, by hand, with steel scraper tools.

venetian blind maker; receives laths planed by machinist (490) g.s. and sometimes also sawn to required length by sawyer (481) g.s.; if laths are not sawn to length, saws them with hand saw; punches holes in slats in laths; cuts beam on which blind hangs; fixes webbing and cord and small pulley wheels in top beam, all by hand, using woodworking tools, screws and nails.

violin maker, violoncello maker; makes instrument of chosen wood, with hand tools (chisels, gouges, knives, planes, saws, etc.); fits stud, tail piece and thumb pegs for attaching of strings; makes and fixes finger-board; is often largely engaged in repairing violins or similar instruments.

washboard maker; (i) cuts out parts of washboard from machined lengths of wood, using woodworking tools, fits together, with brass or zinc screws or nails, and trims off edges; (ii) makes frame and fits sheet of corrugated zinc.

washing mald maker; assembles parts of "washing mald," i.e. trough and stirring mechanism; fits together, and makes watertight; cf. malden maker.

wattle maker; a bundle maker g.s. who makes frame work of hurdle and then weaves it with twigs or wattles.

wig block maker; shapes, with hand tools, wooden blocks to hold wig in making.

wood bender, see timber bender.

wood dresser (harness furniture); cuts out and shapes, by hand, using woodworking tools, wooden base for lined cart harness, ready for metal casing.

wooden bobbin finisher; finishes off with hand tools, roughly turned wooden bobbins and fixes metal attachments.

wood fibre maker, see wood wool cutter.

wood finisher; smooths finished work usually with glass and sandpaper either by hand or by holding wood work against face of sandpapering

or buffing machine, usually done by joiner (444) or cabinet maker (473) g.s.

wood floor layer; (i) see parquet floor layer; (ii) lays floors with wooden blocks, arranged in a pattern, usually on a foundation of cement, fixing blocks by means of mallet-bitumen; plans or scrapes to one level and applies first polish.

wood handle maker (not tool); as for handle maker; may shape principally by hand from hard woods, e.g., box, ash, ebony, using saw and small lath.

wood heel maker; heel maker; (i) shapes wooden heels with chisel and spokeshave; (ii) general term for operations engaged in any of the various operations of wood heel making, when work is subdivided, including blocker, breaster (486), concaver (486), grader, scourer (489) g.s.

wood hewer; cuts and shapes wooden beams with axe or also for "rounds" or "points" of other piles which are to be steel shod and collared.

wood label maker, see tally maker.

wood letter cutter, wood letter maker; chisels or pencils outlines of letters on pieces of well-seasoned, smooth wood and cuts out solid letters by use of sandpaper, of a horse wheel or more generally, of a small hand saw; finishes off letters by bevelling, filing, sandpapering, etc.

wood measurer, see timber measurer.

wood model maker; modeller (wood); makes models in wood, working from scale drawings; measures and marks out wood accurately, cuts parts with fine saw, planes and shapes with various wood cutting hand tools; joins parts together with small nails and screws; may also do wood carving, see wood carver (485).

wood packing maker, see wood wool cutter.

wood pipe maker (organ); an inside hand g.s. who makes wooden organ pipes by gluing and pegging together boards of definite length, into long square tube.

wood rake maker; makes handle by drawing stick through die of trapping machine to smooth it and reduce to required section; saws, shaves and hoves head; makes teeth on trapping machine, and fits parts together.

wood scale maker (piano), pattern maker (wood scaler); makes a pattern in wood (called a wood scale) of a piano scale, from which a mould is afterwards taken for use in making iron scale of a piano; work done by hand, with hand woodworking tools wood shell maker (drums, etc.), saw scaleboard wood, i.e. thin wood, generally spruce or ash, to required length, steams it in steam chamber, bends it to shape of drum by hand on a jig or shaped mould fitted with clamping screws, joins ends with glue, or with rivets or staples, which are driven in by hand or on machine, presses join, if glued, with a hand-manipulated cast press fitted with hand screws; leaves drum shell to dry.

wood shovel maker; fits on to turned handle, a shovel-shaped piece of wood, made by chisel and spokeshave.

wood wool cutter, wood wool maker; wood fibre mald, wood packing maker; places waste veneer or waste peelings from logs, in a pile, on bed of a machine, and clamps them in position, switches on power-drive of machine, which planes thin shavings from pile as it advances automatically towards horizontal cutter of machine.

wood worker; general term for any person working in wood, e.g. as a joiner (474), or as a wood cutting machinist (485) g.s.

wood worker (orthopaedic); cuts out and fashions wooden parts of surgical appliances, by hand, taking measurements from plaster casts or moulds, and using woodworking tools.

writing slate framer; fits wooden frames, decorated or hand-beamed together, round slate.

yard maker, see mast maker (wooden).

499—OTHER WORKERS.

axle packer; for large axles, shingles over finished bearing parts of axles, in process of making or fitting, or for transport, with wood and hoop iron to prevent damage.

backer-up; feeder, Sawyer's wife; assists sawyer (483) g.s. to push wood up to power-driven circular saw and to pull it away after it has been cut, cf. puller.

barb chopper; bark cutter; (i) chops bark, by hand, with a small axe or chopper, (ii) shovels or tips bark into hopper-head of a power-driven chipping machine, shovels chopped bark, as it is discharged from machine, into sacks.

barb cleaner; bark grinder, bark scraper, bark shaver; cleans rough bark from cork with a revolving wheel equipped with cutters; also grinds cut blocks of cork on a sandpaper wheel to produce smooth surface.

barb cutter, see bark chopper.

barb grinder; (i) feeds bark into grinding mill, for convenience of transport, or to prepare for extraction of tanning liquors; cf. bark grinder (339), (ii) see bark cleaner, bark machine attendant, see wood barler.

barb picker; sorts and grades wood bark by kind, quality, size, thickness and suitability.

barb scraper, see bark cleaner.

bark shaver; (i) see bark cleaner; (ii) removes bark from tree with band scraper.

bark sifter; uses a riddle or screen to separate bark from larger pieces of bark in a cork producing workshop.

bark stripper; cork stripper, cork dresser; cuts cork, as imported, into long strips, suitable for further cutting or machining, either with a hand knife, or by passing cork into a power-driven machine fitted with a revolving cutter.

bark worker; general term for any worker engaged in preparing bark to be used for cork, ornamental purposes or for tanning.

barrel driving man, see machine barrel driver.

basket; letterer, basket maker; prints with stencil, or paints with brush, by hand, name of prospectus owner, upon sides of baskets.

bavin holder (firewood); holds hays, i.e. long bundles of brush-wood, for faggot maker g.s. who saws them to required length and ties them into bundles.

bavin maker; waste maker; makes up bundles of waste wood in coppices or forests for use as fuel.

bench hand, bench man; (cabinet making), assists joiner (474) or cabinet maker (475) g.s. in work upon machine-made cabinets or furniture; makes minor adjustments with hand tools and screws on fittings.

broom maker; broomer; trims sticks for handles with draw knife; makes up bundles of broom, haws, birch or other twigs, and binds to handle with osiers or split sticks; often done by birch broom maker g.s.

binding board maker (for braid, etc.); glues strips of wood to edges of small, narrow pieces of wood (already machine cut), to make binding boards for braid, cord, etc.

birch broom maker; broom finisher, broomer; makes handles of long wooden stakes with birch twigs with draw-knife; makes up bundles of birch or other springs twigs; pegs them on handle and bands them round with wings of osier or split stick.

birch picker; bark shaver; (twigs suitable for making brooms, etc. babbler, see sandpaperer.

bobbin harreller; places finished wooden bobbins in barrels and pours linseed oil over them before they are painted.

bobbin counter; wooden bobbin counter; tube counter and bobbin checker; counts number of finished wooden bobbins turned out by machines; makes simple record of number made by each machine for payment purposes.

bobbin polisher (wood); feeds polishing machine with finished bobbins, with one hand, and with other hand works a lever which brings bobbins into contact with abrasive mop.

bobbin sandpaperer; smooths surface of finished wooden bobbin with sandpaper on a special lathe.

bobbin sizer; measures size of bobbins or other turned articles, with a "size" or gauge; rejects those that are too large or too small; cf. bobbin sizer (486).

bobbin slow tester; tests bobbins for looseness by placing them on a spindle revolving at low speed; cf. bobbin tester (483).

box maker (match factory); matches.

box maker; (i) makes match boxes, by putting thin strips of seasoned wood, or, more often, of cardboard, into a machine, which cuts strip, folds it into shape of box and joins edges; (ii) makes match boxes of thin strips of wood by hand; places strip round mould, covers with gummed paper and affixes striking part at side.

branch river; gives timber with a cleaver, and shapes the piece of timber with hand knife to form branches, i.e. pointed implements used in thatching; cf. wood reuder.

broom dealer; see birch broom maker, broomer; (i) see broom maker; (ii) see birch broom maker.

brush machine finisher; a sandpaper machine hand q.v. finishing brush stocks; cf. moulding machine hand (486).

buffer (baskets); see willow buffer.

thung maker; see rust pug maker.

camberel maker; camberel maker; camberel maker; (i) splits timber into lengths with cleaver; shapes and finishes with draw knife, and saws notches forming camberels or gambrels, used for holding carcasses in butchers' shops; now usually made of steel; (ii) cuts carcass sections, with hand saw, from naturally curved pieces of ash; saws notches, and finishes with hand tools.

cane chair sorter, cane sorter; sorts out various thicknesses of reeds and canes.

carpenter's mate; usually a labourer q.v. in carpenter's shop; may perform simple carpentry work at bench under supervision; assists carpenter (474) q.v. by holding up work and keeping tools.

chair paperer; sandpapers chair frames, by hand, after they have been shaped.

chip breaker, chip chopper; feeds logs of medicinal or dye woods into chipping machines in which they are broken up, and catches machines.

cleanser, cleanser-up (piano); scrapes (mucks off) and rubs veneered parts of piano with sandpaper or glasspaper, preparatory to polishing.

clipper (coopering); makes special wooden hoops (used in dry cooperage) by cutting strips to required length and nicking ends which are then clipped together; usually done by hoop maker (477) q.v.

clothes peg maker; (i) cuts pegs and shapes sticks; cuts out fork by hand, and attaches band of tinplate at upper portion of fork with rivet or small nail; (ii) turns knob headed pegs on lathe or shapes pegs by drawing through die of trapping machine.

conveyor attendant; removes baskets of finished bobbins from conveyor for transit to packing room; also removes empty baskets and stacks them.

cooper's assistant; assists cooper (477) q.v. generally, keeping him supplied with staves, hoops, etc.; removes finished barrels, cleans up workshop, etc.

teek drawer-off, cork stripper, see bark stripper.

creeper peg maker (textile machinery); turns creeper pegs (wooden pegs fixed in creeper for holding bobbins) on a wood turning lathe and cuts them to required length.

crescoter, timber crescoter; carries timber to and from tank in which timber is impregnated with creosote under steam pressure; puts timber in tank; controls steam pressure by means of a lever; removes timber from tank after specified time.

cutter-down; removes frames consisting of a stout welding band of hand-made matches, dipped at both ends, by hand, from dipper (148) q.v.; fixes it in guillotine machine and moves lever operating knife which cuts them in half; may also do work of box filler (349) q.v.

dowel maker; passes wood by hand, into automatic machine, in which it is turned and cut into dowels, i.e. small round section, pieces of wood used for joining sections of furniture, etc.; together, test machine in motion, by moving a lever, and collects dowels produced by machine.

drum lagger (electric cables); a labourer who fixes wooden battens or "lagging" pieces on to drums, from rim to rim, to protect wound cable from damage.

end finisher (pencil); feeds automatic machine which cleans, i.e. smooths and trims up, ends of varnished pencils.

faggot maker; takes long bundles of brushwood which are cut and bundled in the woods, and saws them into small bundles or faggots.

feeder (saw-mills); see barkier-up.

ferruler (walking sticks); tapers end of walking or umbrella stick by shaving with a knife or by twisting in a cutting machine; fits a ring or cap of metal round the end, to strengthen it or prevent splitting and wearing, and fixes by driving in a small brass nail and filing smooth; usually done by fitter (484) q.v.

finisher (bullaun cues); glues leather tip on end of cue, and gives cue final sandpapering.

finisher (boot lasts); scours (boots lasts), smooths surface of wooden last by holding it against revolving wheel covered with sandpaper or other abrasive material; polishes it by holding against revolving waxed or soaped cotton mop.

finisher (lead pencil making); general term for operatives engaged in finishing lead pencils, including finisher, varnisher (lead pencil), polisher (lead pencil) and stamper (lead pencil) q.v.

firewood chopper; wood chopper, wood cutter (wood yard); chops pieces of wood, cut by firewood cutters q.v. by hand, into short lengths suitable for burning.

firewood cutter; cuts wood by hand or circular saw, into suitable lengths for chopping into small sticks.

fish skinner (walking and umbrella sticks); rubs surface of stick with dried, cleaned fish skin to required smoothness.

gambrel maker, see camberel maker.

glass paperer, or for sandpaperer.

groover (lead pencils); grooving machine attendant; feeds wooden pencil slats into machine which grooves them ready for receiving leads.

hemp planer; planer (rod machine); smooths surface of wood or wooden articles, by shaving top layer away with hand plane on a bench.

heath broom maker, or for birch broom maker.

labourer; assists skilled workers, e.g. cooper (471), shipwright (473), sawyer (481), woodworking machine hand (483) q.v., by moving and stacking timber, sawn and machined wood, manufactured articles, etc.; keeps skilled worker supplied with materials, holds up work, looks after tools, keeps fire pot hot, cleans benches and workshop; carries timber in

yard or moves it by dragging on iron skids or rollers; usually specifically designated, e.g. carpenter's labourer, coach builder's labourer, joiner's labourer, joinery works labourer, pattern maker's labourer, raft (timber) timber yard labourer, saw mill labourer, sawyer's labourer, ship joiner's labourer, shipwright's labourer, timber, cutter's labourer, (mines) timber yard labourer, wheeler's labourer, wood drying kiln labourer, wood planing machine labourer, wood yard labourer, yard labourer.

ting maker, lag and peg maker; turns wooden pegs on lathe, and drills holes for pegs in wooden blocks (lags) used for forming patterns on dobbie looms.

liner; see *scutcher*-down; marks out timber for cutting, with chalk or with straight edge and pencil.

machine barrel driver; barrel driving man; rolls barrel or cork on to platform of barrel driving machine; slips an iron hoop over end of cork; adjusts and secures iron arms, suspended over platform, to the hoop; moves, causing platform, with cork upon it, to rise by hydraulic power, thus pressing hoop against movable iron arms and forcing it tightly on to cork; removes cork when hoop is forced on as tightly as it will go.

machine nailer, see nailing machinist.

moulder (lead pencils), see wood worker (lead pencil).

moulding checker; measures mouldings as they come from machine; collects them, according to size and pattern, prior to passing them into stock.

nailing machinist, nailing machine attendant; machine nailer; operates a nailing machine used for making boxes; passes nails into hopper head of machine; places bar or section thereof on table beneath machine; manipulates lever to actuate plunger which carries nails from hopper head and drives them one by one into wood-work of box.

nesting hand (match boxes); one of two workers who put pieces either of outside covers or of slides, i.e. inside portions, of match boxes into receiving guides of an automatic machine; this machine conveys both outer covers and slides along a bar fitted with devices which lift slides with matchsticks, and slips into outer covers; another worker takes off filled boxes at other end and puts them in a basket crate; cf. box filler (match) (343).

enkinment box maker; passes strips and discs of thin peeled wood into automatic machine, which twists strips into circles and glues them to discs; also pours glue into feed container of machine.

outside box machinist (match boxes); feeds match box making machine with skillets, received from skillet chopper (483) q.v.; fixes open of printed paper on spindle of machine, and keeps feed trough of machine supplied with paste; switches on power-drive of machine, which automatically folds sections of paper, pastes them, and delivers outer covers complete, ready for nesting hand q.v.

paperer, see sandpaperer; sometimes specifically designated, e.g. stock paperer.

paper hand (piano hammer); puts strips of wood after they have been shaped by spindle hand (486) q.v. through power-driven sandpapering machine, to smooth part of hammer that is not covered with felt.

part finisher (piano); cleans wooden parts of piano frames with sandpaper or glasspaper, before they are assembled or polished; works partly by hand and partly with a belt machine.

peeler (basket making), rod peeler, rush peeler, twig peeler, willow peeler; peels rods of willow, osier, rush, etc., before weaving, by means of a brake, a kind of pincers.

peg maker; general term for any worker making wooden pegs, by varying method; usually specifically designated, e.g. bent peg maker, clothes peg maker, crescent peg maker, shuttle peg maker, tent peg maker, vent peg maker, etc.

peg maker (tools); passes wood, by hand, into automatic machine which cuts and shapes pegs for use by boot makers (412) q.v. in attaching soles to uppers, switches on power-drive of machine and collects pegs after they have been cut and passed through machine.

peg maker (casks), see vent peg maker.

plier (coopering), see stave stacker.

pump maker (firewood), see bavin maker.

pipe pumice (wood), see polisher, pipe.

split maker, see vent peg maker.

planer (not machine), see band planer.

polisher (lead pencil), wood polisher (pencil); feeds hopper of polishing machine with lead pencils, which are automatically polished in preparation for varnishing.

polisher (wood pipe), hater polisher; pipe pumice (wood); (i) polishes inside and outside of bore and stem of pipe, either with power-driven revolving pumice stone, or by covering with polishing paste and holding by hand against sandpaper belt; (ii) polishes both inside and wooden stem of pipe after staining (see briar pipe stainer (398)) by holding it against revolving disc of calico.

polisher (wood heels); smooths surface of wood heel by holding it against revolving wheel covered with sandpaper or other abrasive material; polishes it by holding against revolving wheel of scraped cotton wool.

puller-out, pull-out key (saw mills); stands at back end of circular saw bench and pulls wood through when sawn nearly to end, cf. backer-up.

pumice; smooths coat of polish or varnish on wooden articles by rubbing with moistened pumice powder on a pad.

runcar's attendant; carries bobbins from reeling machine to reeling machine; cf. bobbin runner (488).

rounder, rounding machine attendant; feeds machine with pencil or penholder blanks to round them.

rubber, rubber-down, see sandpaperer.

rule ruler; sandpapers rules for rule finisher (498) q.v.

sand blaster (on wood); imprints designs on smooth surface of wooden panels or other articles by exposing parts to be decorated to blast of fine sand driven by compressed air, other parts being masked by cardboard or other suitable shield.

sandpaperer, sander, sand paper machine hand, sandpapering machine; bobby, popper, rubber, rubber-down; rubs surface of finished wooden articles with sandpaper or glasspaper by hand, to make smooth or to prepare for polishing or varnishing; or prepares surfaces of wooden articles by bringing them into contact with a revolving disc covered with sandpaper or glasspaper.

saw settler-out, see liner.

sawyer's mate, see backer-up.

scaleboard collector, scaleboard sorter; collects and sorts scaleboard, as produced by scaleboard cutter q.v. and stacks or stores it where required, according to length, thickness, kind, etc.

scaleboard cutter; clamps wood, generally spruce, on bed of scaleboard cutting machine; adjusts blade of machine, by hand, to cut wood to requisite thickness (one thirty-sixth of an inch); switches on power-drive of machine, causing a wide blade to move forward and shave thin sheets from wood.

scourer (boot last), see finisher (boot last).

scourer (wood heels), heel scourer; smooths surface of heel, when it has been shaped, by holding it against rotating wheels covered with sandpaper.

shave maker, shave turner, see vent peg maker, cf. peg maker (488).

shoulder (penholders); feeds penholder sticks into machine which cuts shoulder on stick, to take steel mount or holder; often also feeds tapering machines (see taperer).

shuttle peg maker; turns shuttle pegs or pins on a lathe, and cuts them to required length.

skewer bottom drier; applies glue to head of wooden skewers, and places skewer bottom on to bath on to skewer, ready for fixing into position by machine.

skewer maker (textile machinery); cuts and turns wooden skewers for cotton winding frames, by feeding wood into automatic machine.

sleeper pickler, see for creosote.

slide machine attendant (match boxes); attends feeds and operates machine, which makes slides, i.e. inner portion of match boxes; replenishes supply of wooden strips, paper, cardboard and gum in machine as required; cf. outside box machinist.

spool maker (harp wire); makes, by mailing together machine-made wooden parts, large spools upon which harp wire is wound.

square sorter; sorts good squares from waste wood from sawmill, in which wood is cut into squares ready for forwarding down into bobbins; passes waste to chemical department to be made into charcoal or sold as firewood.

stacker (coopering), see stave stacker.

stamper (lead pencils); feeds hopper of stamping machine with lead pencils, which are automatically stamped therein with name of firm, indications of quality, etc.

stamper (planes); numbers each hammer in a set with an indelible stamp, to indicate its position in a set; usually done by hole borer (488) q.v.

stave stacker, stavic (coopering); pier, stacker; a labourer who piles staves in open stacks, with air spaces between, for seasoning; carries them from ship or truck to stack.

stick polisher; polishes or varnishes sticks for umbrellas, parasols, or walking sticks.

tallyer, tally man, see timber checker.

taperer, tapering machine attendant; feeds penholder sticks into machine which tapers them; often also feeds shouldering machine (see shoulder).

telegraph pole dresser; strips, with draw knife, bark and skin of trees selected for use as telegraph poles.

tant peg maker; cuts out shaped pieces of wood from boards, which curl hand saw, and catches them in wire cutting machine to make pegs, used to secure tant ropes to ground.

timber checker; tallyer, tally man, wood checker; verifies measurements of timber received at docks, in timber yard, or in works; keeps simple record of timber received or despatched from wood yard.

timber loader, see wood loader.

timber man; arranges and stacks timber in works yard and issues supplies to sawyers, coach builders, etc., as required.

timber marker; brands ends of timber with branding iron to indicate quality, cubical contents, etc., may also mark for cutting.

timber preserver, timber preserver; seasons or treats timber with chemical substances, generally creosote, to preserve it, may paint surface of wood with solution or place timber in a high pressure chamber to impregnate it with chemicals and so render it non-inflammable, or less liable to rot, or seasonless in appearance; cf. creosoter.

trailer-out; levers hauls of timber on to low trolley and pushes it along rails in and out of saw mill.

transferer; applies coat of thin shellac to smooth wood surface, by hand with brush, lays on transfer and sets aside to dry; tears off paper and rubs transfer clean.

tubbie; carries barrels from cooperage to warehouse; cf. tubble (477).

tube counter and tubbin checker, see bobbin counter.

varnishar (lead pencil making); attends varnishing machine which automatically coats pencils with varnish; feeds pencils into hopper and watches machine for smooth running.

vent peg maker, bung maker, put maker, shave maker, shave turner; turns circular wooden pegs, or plugs, for barrels, from square or round sticks, using lathe or trapping machine.

waste wood sorter; sorts over wood from which bobbins have been made, takes out any good bobbins inadvertently left in it, and fills up bags of firewood.

willow buffer; buffer; strips willow twigs in boiling water and removes bark, by hand, exposing buff-coloured wood.

wood barkar; barkar machine attendant; removes bark from logs either by hand, with a two-handed knife, or by fixing logs in front of revolving cutter of a machine.

wood bundle maker; makes up bundles of firewood, places string and chopped sticks in kind strong to proper height and ties up.

wood checker, see timber checker.

wood chopper (firewood), see firewood chopper.

wood splitter (wood pulp); wood splitter; splits thicker logs in halves in splitting machine and afterwards feeds them into chopping machine in which they are converted into chips.

wood cleaner (wood pulp); wood duster, wood willower; feeds wood chips into large revolving screen to remove dust and dirt before boiling.

wood cleaner (wood yard); strips tree timber of branches and leaves.

wood cleaner, see wood reder.

wood cutter (wood yard); (i) see firewood chopper; (ii) see wood reder.

wood chopper (wood pulp); see wood cleaner.

wooden knitting pin maker; sharpens point of wooden knitting pin, in a machine similar to a pencil sharpener; affixes small wooden head, with glass, and varnishes pin.

wooden screw maker; passes wood, by hand into machine, which automatically shapes and turns wooden screws; sets machine in motion, by moving a lever, and collects finished screws produced by machine.

wooden skewer maker; makes wooden skewers for weaving, by hand, from saw twigs, by trimming with knife.

wood faggoter; a coppice worker who makes up bundles of waste sticks, or of rough stakes, for firewood, fascines or other purposes.

wood loader; timber loader; loads timber on to saws wagons with chain, blocks and rollers.

wood reder; wood cleaner, wood cutter (wood pulp), wood splitter; splits timber, with cleaver or wedge and mallet, into pieces suitable for various purposes, e.g. making of tool handles.

wood splitter; (i) see wood chopper; (ii) see wood reder; (iii) a woodman, who splits wood in the tree, by driving in iron wedges with blows of mallet.

wood willower, see wood cleaner (wood pulp).

wood worker (lead pencils); moulder; puts wooden sticks to be moulded into halves for pencils, in hopper of moulding machine; keeps feed clear from joints; sticks, in halves, pass automatically into glazing machine.

Sub Order 2.—Other Workers.

502.—BEDDING AND MATTRESS MAKERS.

bedding cleaner; feather man; takes bedding to pieces; cleans covers by steam or hot water, and beats filling by hand, to remove lumps and to aerate it.

bedding maker, bed maker; general terms for any worker engaged in making bedding, e.g. in filling cases with hair, feathers, or flock, or in sewing up ends and finishing; sometimes specifically designated, e.g. feather bed maker.

feather man, see bedding cleaner.

feather picker; separates and prepares feathers for filling beds.

filler, see stuffer.

hascock maker; general term for any worker engaged in making hascocks, i.e. either cutting out covers, stuffing them, or sewing them up.

mattress maker; levels, by hand, stuffing material, which has usually been inserted in mattress cover by another worker, though some mattress makers do their own stuffing, of stuffer, stitches mattress, by hand, with string and a special needle; secures stuffing material in position by running-in process, i.e. by attaching leather discs (tufts) connected by strings to upper and lower surfaces of mattress cover and tying them tightly; by hand, inside mattress, (cf. tufter) a stiletto or similar tool being used to piece mattress cover and leather tufts.

pillowcase maker; a mattress maker g.v. who makes mattresses stuffed with straw (pillowcases).

stuffer; filler; stuffs mattresses, hascocks, cushions, etc., with hair, wool, straw, or other stuffing material; sometimes also levels stuffing material, and secures it in position by running-in process; cf. mattress maker.

tufter; stitches through mattresses, after they have been stuffed (see stuffer), at various intervals to keep stuffing in position, using special needle and passing twine through leather discs (tufts) on each side to prevent twine from pulling through.

503.—CARPET AND LINOLEUM PLANNERS.

carpet layer, carpet fitter, carpet fixer; lays, stretches with claw hook, and fixes carpets, with or without underlayment as planned by carpet planner g.v.; frequently done by carpet planner.

carpet planner; measures floor space of room to be covered and decides best method of laying carpet; cuts out pieces to shape of room, often also patterns where possible; often also lays them (see carpet layer).

floor covering layer; general term embracing carpet layer and linoleum layer g.v.

linoleum (lino) layer, linoleum (lino) fitter, oilcloth fitter, oilcloth layer; lays, and fixes with nails or glue, linoleum or oilcloth, as prepared by linoleum planner g.v.; frequently also plans it before laying.

linoleum planner; oilcloth planner; also for carpet planner.

oilcloth fitter, oilcloth layer, see linoleum layer.

oilcloth planner, see linoleum planner.

504.—UPHOLSTERERS & COACH TRIMMERS.

braider (carriages, etc.); fixes braid, covering edges of upholstery in coach building; usually done by coach trimmer g.v.

carpet sewer; (1) makes up carpets by sewing borders on to central square with strong thread and a special needle; may also make up squares by sewing carpet strips together; sometimes sews up carpet to fit special

dimensions of room; (2) an upholsterer g.v. who sews together pieces of carpet to form covers for furnature, chair binder; tacks braid on other stuffing cover over padding of back and seat of chair and over webbing under seat.

couch stuff over man; an upholsterer g.v. who specialises in making couches of which the framework is entirely upholstered.

coverer (aeroplane); stretches on and nails, glues or stitches fabric covers of aeroplane (wings, bodies and fuselages) to wooden or aluminium framework.

cushion filler (vehicles); fills cushions with flock, etc.; secures padding in position, using string, fabric or leather discs, rosettes and buttons; in perambulator making, work is sometimes done by upholsterer g.v.

finisher (aeroplane); trimmer; trims and cuts off tags, ends, threads, etc., from sewn material of aeroplane, etc.

leather stitchee (furniture); stitches edges and other parts of leather covering of furniture, and assists upholsterer g.v. generally.

leather worker; general term for workers in leather on furniture, rolling stock, etc., including budget trimmer, saddler (railway rolling stock) (348), leather stitchee g.v.

linar, cabinet liner; covers, with linen, silk or other fabric, inside of cabinet case work.

mender (vehicles, etc.); repairs torn seats and upholstery; usually done by upholsterer g.v.

ottoman maker; an upholsterer g.v. who specialises in the covering of ottomans, a light type of couch.

sofa binder; binds, with braid or other fabric, springs and stuffing of sofa, before cover is put on; sometimes done by upholsterer's assistant (500) g.v.

stuffer (chair, cushion, sofa, etc.); inserts, arranges and fixes padding of articles of furniture, carriage, etc.; sometimes done by upholsterer's assistant (530) g.v.

trimmer; (1) upholsterer's trimmer; trims edges of applied covering material; covers backed edges with braid, and attaches rosettes and other embellishments and assists upholsterer g.v. generally; (2) see upholsterer; sometimes specifically designated, e.g. aeroplane trimmer, basketie trimmer, coach trimmer, perambulator trimmer.

trimmer (aeroplane, airships, etc.), see finisher (aeroplane).

trimmer, budget (coaches and carriages); cuts out, with hand knife, according to pattern, leather fittings used in coach building, for hood, splashboard, aprons, etc.; finishes edges of leather with hand tools, applies dye or stain to them, by hand, if required, and tacks or fixes leather fittings in position.

carriage, coach; upholsterer (carriage); cuts out, by hand, with shears or knife, material (other than leather) to be used in upholstering carriages, coaches and motor cars; stuffs and lines seats, by hand; tacks in position, the pieces of leather required on outside of vehicle.

trimmer, leather (railway coaches); trims padded leather work in railway coaches; cuts and turns leather straps, etc., by hand, with hand tools. Sometimes also cuts out leather for use in making railway cushions, and assists saddler (344) or upholsterer g.v.

trimmer, upholsterer's, see trimmer.

trimmer, white; a specially skilled coach trimmer g.v. or upholsterer g.v. who undertakes work involving use of light coloured and delicate materials.

upholsterer; (1) applies springs, padding, cushions, covers of cloth, silk, leather, or other material, decorative articles of furniture; tacks webbing with string; inserts padding and covers with braid or other fabric;

cuts out, fits, and tacks in place, exterior cover; does each edge of material by tacking, on braid, rosettes, etc.; (2) see trimmer; sometimes specifically designated, e.g. aeroplane upholsterer, carriage upholsterer, perambulator upholsterer.

upholsteress; general term for women engaged in coach upholstering, usually sewing covers for seats, etc.; sews together pieces of carpet; stuffs and makes throughout hascocks, etc., sews together, and edges with cord, if necessary, loose covers for furniture.

505.—OTHER SKILLED WORKERS.

coffin trimmer; cuts padding and satin to shape and lines inside of coffin; nails lining in with tacks and trims edges with gimp or frilling; usually done by coffin finisher (436) g.v.

cushion maker; levels, stitches, runs in cord, braid, etc., and ties down chair cushion cases which have previously been filled with wool, hair or other padding.

506.—OTHER WORKERS.

breaker feeder (rag flock making), see flock machine tender.

flock machine tender; breaker feeder; feeds rags to breaker machine, which tears and breaks them to a degree of fineness, necessary for upholstery padding, bedding and cushion filling; attends machine generally.

trimmer's assistant; assists trimmer (504) g.v. by holding tacks, tools, etc.; may do less skilled tacking and cutting or trimming of fabric when tacked.

upholsterer's assistant; assists upholsterer (534) g.v. by covering, stitching, cutting web, etc.; cuts and sews linings to cover padding.

ORDER XVI.—MAKERS OF AND WORKERS IN PAPER; PRINTERS, BOOK-BINDERS, PHOTOGRAPHERS, ETC.

Sub-Order 1.—Makers of Paper, Pulp, Straw and Card Board.

511.—FOREMEN AND OVER-LOOKERS

rag-house overlooker, rag-house overseer; supervises work of rag-cutters (519), rag dusters (518), rag sorters (534), and labourers employed in or about rag-house, is responsible for various quantities and quantities of rags used; assigns duties to workers under him and checks their time; engages and discharges rag-house workers; sometimes also, where rag-bolling is done in conjunction with cutting, sorting and dusting, supervises rag-bolling workers.

512.—BATMEN AND MACHINE MEN.

beaterman, rag beater; in charge of a number of beating engines which disintegrate and soften materials, i.e. asbestos, straw, grass, rags, wood bogs, etc., used in manufacture of paper, strawboard, millboards, etc., and reduce them to pulp; has expert knowledge of textures or qualities of pulp required in making various papers, etc., consults power-driven engines; instructs helpers as to quantities of water to be let into engines and amount of china clay, case, resin and (for coloured paper) dye to be added; after pulping is completed, takes small sample of pulp and passes it to chemist for analysis.

cutterman, rotary; **ripperman**, **trimmer** (card and pasteboard); **adjusts rotary cutting knives on machine used for trimming edges of large mill boards, using measuring gages, feeds machine with mill-boards and controls power which drives machine, by means of switches.**

cyllinder man, s. s. dryer.
dumper, dumperman; **assists super-calenderman q.v. by attending a reeling machine fitted with a mechanically operated dumping device used for dumping paper in preparation for super-calendering; watches reeling or re-reeling of paper for creasing, beakings, etc. and assists in lifting on and off rolls of paper to and from spindle of machine.**

dipper, size dipping; **dips hand-made sheets into sizer vat of gelatine, cf. tub sizer.**

dry ender, dry end man, s. s. dryer.

dryer, dryerman; **cyllinder man, dry ender, dry end sizer**; **attends steam-heated drying cylinders round which paper passes in papermaking machine when starting machine or after breakage of paper web takes the paper from end to end of the drying cylinders to ensure it following the correct path; while machine is working, watches for breakages of paper, regulates steam and makes any minor necessary adjustments; see also calender assistant.**

dryerman, left (hand-made paper), dryworker (hand-made paper), dryworker; **is employed in drying loft, in which hand-made sheets of paper are suspended in small batches on cowhair ropes; changes position of sheets at intervals so that all are subjected to equal drying conditions.**

embosser; **or for linoleum except that machine is fitted with an engraved steel roller, running in contact with a paper case, to impress a grain on paper.**

emblemmer (card, pasteboard and paper), s. s. coater, haryla.

enlarger (photographic paper); **a calendar attendant q.v. engaged in passing special photographic paper through rolls of calendaring machine to give it a glossy surface; cf. enlarger (photographic paper) (198).**

finisher (card and pasteboard); **general term for workers who examine, sort, count or tie up boards, or do other finishing operations prior to dispatch.**

finisher, plate (millboard), s. s. glazer, plate.

finisher, paper; **maker-up, s. s. finisher**; **general term for workers in the finishing (s. s.) department including paper counter, paper sorter q.v., etc.; in hand-made paper trade may be responsible for quality and quantity of paper sent out.**

finisher, plate, s. s. glazer, plate.

finisher, s. s. glazer, paper.

glazer (card and pasteboard), s. s. rollerman (card and pasteboard).

glazer, friction; **glazer (paper)**; **a calendar attendant q.v. operating a machine which glazes paper by passing it between beveled rollers or cylinders, of different diameters revolving at different speeds; keeps cylinders clean and regulates flow of beccowax to cylinders by turning taps on or off.**

glazer (paper); **(i) s. s. plate glazer; (ii) s. s. friction glazer.**

glazer, plate; **glazer (paper), miller, general finisher (millboard), plate finisher, plater, press rollerman, roller, rollerman (hand-made paper); passes a pile of sheets and plates prepared by interleaver (519) q.v. several times between rollers pressed powerfully together and returns it to interleaver; repeats process, after re-arrangement of sheets by interleaver as often as necessary to obtain requisite finish; may sometimes also do the work of interleaver.**

guillotine man (asbestos), s. s. trimmer (asbestos).

guillotine man (paper mill), s. s. cutter, guillotine.

inspector (card and pasteboard); inspects goods before despatch to ensure good quality.

jordan man; shovels half-stuff, i.e., semi-prepared pulp, into hopper feed of specially designed machine used for pulp refining; manipulates valves which control water flow; switches on and off power which drives machine.

linoleum; lino machine man; with assistance of labourers, fixes reel of paper on machine consisting of steam-heated steel rollers and paper rollers between which two sections of linen pass, power pressure being applied to rollers in order to impress linen pattern on paper, guides end of paper between hush sheets and rollers, and switches on and off power which drives machine.

machine assistant, first; **the head workman's assistant (519) q.v. who usually acts as dryerman q.v.; cf. spare machineman (512).**

machine man, lino, s. s. linoleum.

machine man, paper coating; **general term covering haryla cutter, paper counter, tracing paper counter, etc.**

machine man, wood; **wood pulp machine man; manipulates valves which control flow of water into machine in which wood pulp is washed after boiling; switches on and off power which drives machine.**

machinist, s. s. finisher, paper.

mill, s. s. glazer, plate.

mingler; teller-out; **stands at mechanically fed, power-driven gum or paste roller; applies sheets of paper, by hand, to roller; places sheets, after gumming or pasting, of travelling belt on which they pass to card maker (pasteboard paper) (519) q.v.**

mixer, haryla mixer; **(i) measures quantities of gelatine and of chemical colouring matter to be mixed with haryla, and directs and supervises work of haryla mixing machine operator (519) q.v.; (ii) very rarely, performs duties of haryla mixing machine operator (519) q.v.**

paper maker; general term denoting a skilled worker in paper making, especially machineman (512) or beaterman (512) q.v.

paper overhauler, paper overlooker, s. s. sorter, paper.

plater, s. s. glazer, plate.

potcher, potcherman, s. s. bleacher; **sometimes specifically designated, e.g., esparto grass potcherman, rag potcherman, wood pulp potcherman.**

presser (card and pasteboard), s. s. pressman.

presser, hot; **(i) places cardboard or paper sheets between iron plates in hydraulic press; operates press by means of foot lever; removes sheets when pressed; (ii) places cardboard or paper sheets between sine sheets, and passes them between revolving heated rollers; cf. hot presser (547).**

presser, wet, s. s. pressman.

pressman; presser (card and pasteboard), wet presser; **places pile of boards or paper, as received from coucher (512) q.v., in press; operates press by means of foot lever, causing web of paper to be squeezed out; removes boards or paper when pressed.**

reeler (paper mill), reelerman, reelman; ripperman, slitterman, slitting machine man, winder, winderman; **(i) with assistance of labourers, places reel of paper, as received from paper-making machine, on reeling machine; adjusts rotary cutters to divide paper into widths required and to cut off rough edges; switches on and off power which drives machine, and watches re-reeling for creasing or breakage of paper; helps in removing re-reeled paper from machine; (ii) s. s. back tenter; (iii) s. s. cutterman (paper mill).**

ripperman; **(i) s. s. reeler (paper mill); (ii) s. s. cutterman, rotary.**

roller (card and pasteboard), s. s. rollerman (card and pasteboard).

roller, cold; **(i) is in charge of calender in which bowls, s.e., cylinders, or rollers are cold and not heated; (ii) s. s. rollerman (card and pasteboard).**

roller (hand-made paper), s. s. glazer, plate.

rollerman (card and pasteboard); cold roller, glazer (card and pasteboard), reeler (card and pasteboard); attends reeling machine used for rollerman (hand-made paper), press rollerman, s. s. glazer, plate.

sheeter, s. s. sorter, paper.

sizer, engine sizer; **taps from pulps of tube into beating engine, as instructed by beaterman q.v., size, resin, and alum, at intervals during progress of beating; sometimes also acts as spare beaterman q.v.**

sizer, tub sizer; **manipulates valves to maintain quantity of size in vat through which hand-made sheets or machine-made paper web are slowly passed mechanically; in machine-made paper trade, sometimes also acts as dryerman q.v.**

slitterman, slitting machine man, s. s. reeler (paper mill).

sorter; general term covering paper sorter, waste paper sorter, rag sorter (514) q.v., etc.

sorter, paper; s. s. sorter; paper overhauler, paper overlooker, sheeter; overlooks paper sheets or cards, sorts them and throws out all those which are defective.

teller-out; (i) s. s. mingler; (ii) s. s. beaterman.

townsman, s. s. bleach engineer.

tracing paper maker, s. s. coater, tracing paper.

trimmer (asbestos); guillotine man (asbestos); cuts up and trims sheets of asbestos millboard or sheeting in a guillotine cutting machine; cf. guillotine cutter.

trimmer (card and pasteboard); (i) s. s. cutter, guillotine; (ii) s. s. cutterman, rotary.

washer, rag washer; (i) s. s. breaker; (ii) s. s. boiler.

water hauler; keeps the water course, in connection with paper mill, clear by clearing filters with rakes; controls by means of levers supply of water to lodges or dams.

waterproof (paper and millboard), waterproofer (paper maker); feeds with paper (on reel or with cardboard) in sheets a machine which, by a system of rollers, takes up waterproofing composition from a trough, or duct, and applies it to paper or cardboard, finally passing waterproofed paper to a re-reeling mechanism or delivers waterproofed cardboard at rear of machine.

winder, winderman, s. s. reeler (paper mill).

wood pulp grinder man; puts logs of wood in a paper basin of grinding machine, in which they are ground to pulp; manipulates valves which control flow of water on to grinding stone of machine to prevent friction, burning, or production of pulp of a brittle, porous quality; switches on and off power which drives machine and opens valves through which pulp is delivered to vat.

wood pulp pan man; wood boiler, wood pulp boiler, wood pulp boilerman; shovels wood chips into revolving pans in which they are boiled to pulp in prepared liquor; manipulates valves which admit liquor or discharge pulp; switches on and off power which drives machine.

wood pulp willower, s. s. breaker, wood pulp.

519—OTHER WORKERS.

baler (board making); collects cuttings from reeling machine; compresses them by means of a press, and binds them into bales ready for re-use as raw material.

haryla mixing machine operator; places haryla, as instructed by haryla mixer (518) q.v., in tank of mixing machine; admits water into tank;

after beryta mixer has added coloring matter, switches on power which drives revolving paddle in tank of machine, when ingredients are sufficiently mixed, draws off mixture in pail from tap in tank of machine, and passes through fine mesh sieve into separate storage tank.

beater's assistant, *beaterman's assistant*; *beater*, *iller* (North Country); *beeper*, wheels cranes or boxes containing rags, esparto grass, china clay, or other ingredients used in preparation of pulp to beating machine; shovels or pours ingredients into holders of beating machine as instructed by *beaterman* g.v. and assists *beaterman* generally.

bleacher (wood pulp making); places wet boards of soda wood pulp, by hand, in bleaching powder solution in vat; sees that vat is kept full of pulp.

black houseman; removes pulp from bleaching chamber, where it has been mixed with bleaching solution, and trucks it to beater house.

bleaching solution mixer, *bleach mixer*; supervises working of mixing machine, i.e., a tank containing mechanical stirrer; switches on and off power which drives machine; empties chloride of lime from sacks into tank; opens valves which admit water to tank; judges when solution is complete, adding more water if required; opens valves which permit liquor to run off to bleaching vat; boards, places sheets of lime and made paper between glazed boards to flatten them out before they are pressed.

board mill labourer (card and pasteboard); does unskilled work and assists generally in mill.

brusher, *brushing machine man*; men rest of coated paper in a brushing machine, used for giving an extra bright finish to some coated papers; switches on and off power which drives machine; cleans brushes when required, takes off finished rolls of paper from machine.

calendarman's assistant; helps *calendarman* (518) g.v. to place reel of paper in position on calendaring machine; does various cleaning and other unskilled jobs, and assists *calendarman* generally.

card maker (*paper maker*); *paper center*, *pasteboard maker*, *poster* (card and pasteboard), *sheet poster*; passes several sheets of paper together to make cardboard, by hand or by machine, fixing reels of paper in machine, filling paste reservoir, watching cutting knives, etc.

carrier-off, see *drawer*.

catcher, *sheet catcher*, see *cutter boy*, *causticiser*, *caustic liquor maker*, *caustic mixer*; *liquor mixer*, *liquor man*, *liquor mixer*, *panman*; mixes caustic soda with water to make caustic liquor in which rags, esparto grass or other raw material are boiled; cf. *soda causticiser* (148).

chemical worker, see *liquor man*, *wood pulp*.

clay mixer; shovels china clay into mixing vat, turns on water; stirs with wooden stirrer, and stirs through above, in preparation for further treatment by *beaterman* g.v.

cutter boy, *catcher*, *paper*, *boy*, *boy*, *layer*, *sheet catcher*, *theater*; (i) watches sheets as they come out of the cutting machine and lays them flat, if they are wrinkled; in some machines has to pick up sheets from a travelling felt and pile them up; (ii) takes boards off board-making machine.

cutter, *card*; cuts cardboard into various shapes and sizes with guillotine, press stamping, or rotary cutting machines.

cutter, *esparto grass*; feeds cutting machine with esparto grass, using a fork to load hopper head of machine.

cutler, *rag*; draws rags, by hand, across a knife blade at an angle to cut them into suitably sized pieces.

cutting machine hand, *cutting machine man*; assists *cuttermen* (518) g.v. in feeding roll of paper in machine, attending working of machine, etc.

damper boy, *assist*; *damper* (518) g.v. at machine.

devil, *devilman* (paper making), see *cuttermen*.

drawerman, *wood pulp drawerman*; a labourer attending draining vats, in which wood or rag pulp is drained after boiling, bleaching, washing, etc.; after liquid is drained off through perforated floor at vat, shovels out pulp, and trucks it to machines for further processes; to scrub out floors of vats.

drawer, *drawer-off*; *carrier-off*; carries out sheets away from cutting machine to warehouse or sorting room.

drier (asbestos), *carrier*, or *wheels* in trucks, sheets of asbestos mill-beds to drying room; hangs up sheets by clips in drying room; removes drier sheets as required.

dryerman, *loft* (board making), see *dryworker* (board making).

dryerman's assistant, *nipper*; assists *dryerman* (518) g.v. in putting web of paper round drying cylinders; when starting paper making machine; does other odd jobs.

dryworker (board making); *loft dryerman* (board making); hangs boards on to drying screens in drying room by hand.

duster, *cuttermen*; *devil*, *devilman*, *esparto grass shaker*, *rag shaker*, *thrasher*, *yelloweer*; shovels or rakes rags, esparto grass, or other material into hopper head of machine, which opens lugs at rags or fibres of esparto grass or other raw material with mechanical beaters and teasers, and removes dust and other foreign matter by air suction pipes; switches on and off power which drives machine; often speedily decomposed, cf. *esparto grass dusterman*, *rag duster*.

edge-runner, see *kollegrang man*.

feeder (card and pasteboard); (i) passes sheets of paper into pasting machine; (ii) see *beater's assistant*.

felter (leather board); interchanges pieces of felt with sheets of leather board in readiness for pressing.

filler-in (North Country), see *beater's assistant*.

filter man, *filter boy*; cleans flows of filter tanks, through which waste water flows from paper-making machine, with shovels, brooms and water, and does other filtering work in connection with filter tanks.

folder; folds sheets to size required by hand or machine.

front side boy; assembles reels of board at pasting machine, so that any reel which has been unwound can be immediately replaced.

glue boy; mixes glue and carries it to board pasting machine.

grainer attendant; regulates power driving a machine which impresses a surface on boards resembling the appearance of grained wood; adjusts pressure screws and guides in boards, cf. *embosser* (518).

grinder, *grinderman*, *grinding machine man*, see *kollegrang man*.

grinder, *sawdust*; shovels sawdust into hopper of grinding machine to reduce it to wood flour in making of paper; starts and stops machine as required; cf. *kollegrang man*.

hanger; (i) hangs up wet sheets of cardboard to dry; (ii) in hand paper manufacture may be a *dryworker* (518) g.v.

helper, see *beater's assistant*.

hydraulic press attendant, *man* or *hand*; *press picker*; places paper or guillotine, press stamping, or rotary cutting machines.

interlayer; *mill*; *roll girl*; places single sheets of hand-made paper and plates of polished copper or zinc alternately in a pile ready for plate glazer (518) g.v.; after rolling, rearranges sheets and plates for subsequent rolling if necessary.

lipper; *ink boy*; assists *grainer attendant* g.v. in lifting up boards to machine.

litter, see *cutter boy*.

kollegrang man, *wood pulp kollegrang man*, *edge runner*, *grinder*, *grinderman*, *grinding machine man*, *paper pulper*, *pulperman*; feeds, by hand, and attends to edge-roll of kollegrang, which consists of a pair of circular grindstones with grooved periphery, which revolve on a granite bedstone surrounded by trough containing water and thereby break up waste paper or paper pulp, produce being washed on mechanical filter.

labourer; does general yard work in paper mill, e.g., carting, carrying, trucking, shovelling, cleaning and odd jobs generally.

lay boy, *layer*, see *cutter boy*; cf. *layer* (hand-made paper) (512).

liquor maker, *liquor man*, *liquor mixer*, see *causticiser*.

liquor man, *wood pulp*; *chemical worker*; empties chemicals from sacks into tank containing water, to make solution in which wood pulp is boiled; varies strength of liquor as instructed; by chemical (506) g.v. or according to formula corresponding to kind of wood pulp to be boiled; stirs liquor with wood stirrer, or regulates power which drives mechanical stirrer.

little backwater; *machine boy*, *machine helper*; (i) clears away waste from breaker in paper-making machine; assists *backwater* (518) g.v. in taking roll out, and watches presses to give warning of breakages of paper; performs odd jobs; (ii) assists *machineman* (512) g.v. in board making.

loader; loads goods in despatch department.

lobber (card and pasteboard); piles up sheets of pasteboard, etc., after they have been through the pasting machine; cf. *poster*.

machine boy, *machine helper*, see *little backwater*.

machineman's assistant; assists *machineman* (519) g.v. in keeping machine in good running order.

machine minder, *machine tender*; general terms describing assistants on any machine in paper or board making; sometimes used as synonym for *machineman* (512) g.v.

mill, *roll girl*, see *interlayer*.

motor, see *picker*, *engine*.

zipper, see *dryerman's assistant*.

pan cleaner (wood pulp); assists *wood pulp panman* (518) g.v.

panman, see *causticiser*; *man*, *panman* (148).

paper center, see *card maker* (pasteboard).

partier, *pick*; *partier*; separates hand-made sheets, after they have been pressed, to enable *dryworker* g.v. to hang them up.

partier, *sizer*; separates sized hand-made sheets, after they have been pressed, in preparation for loft drying.

pasteboard maker, see *card maker* (pasteboard).

picker, *pick*; a *picker* scraper, g.v. via clean-up, knife, etc., auxiliary picker or strainer, at back of press bed of some paper making machines, with a steel picker.

picker, *dry*, see *picker*, *esparto grass dry*.

picker, *engine*; *note picker*, *note*; picks "notes," i.e. knots, etc., from half stuff as it is conveyed from breaker engine to beater engine.

picker, *esparto grass dry*; *dry picker*; picks out visible impurities in esparto grass while it is being conveyed to boilers on a moving belt.

picker, *note*, see *picker*, *engine*.

picker scraper, **picker rubber** *strouserman*; cleans this in strainers (pickers) free from all impurities which collect there and clog the machine.

picker, wet; removes, by hand, conspicuous foreign matter from rags after they have been boiled.

press packer, *see* hydraulic press attendant.

pulper, paper; **pulperman**, *see* koller-ganggen.

rag chopper, **rag chopperman**; feeds rags into hopper lead of rag cutting machine, and performs general labouring work in rag-house.

reel-off (tracing paper); **reels** paper by hand or machine, measuring it into suitable lengths for each reel.

roster; (slang), a porter who carries bales of raw material for board making from yard to heating department.

sand table man; cleans out grit, dirt, etc., from sand trap or baffle plates through which pulp passes to press plate machine or wet end of paper-making machine, using a shovel.

scram boy; attends to strainers on board-making machine, keeping them clear by removing waste matter, etc., by hand, using brushes, water, etc.

shaker, **esparto grass**; **rag shaker**, *see* dusterman.

sheet carrier; carries sheets of hand-made paper to and from the drying lift.

sheeter; (i) *see* interleaver; (ii) *see* cutter boy; (iii) *see* sheet (518).

tabster (card and pasteboard); passes sheets of card or pasteboard into machine which cuts them to specified size; adjusts cutters of machine, using measuring gauge; switches on and off power which drives machine.

tester, **single**; adjusts cutting knives of machine used for accurate cutting of hand-made paper in single sheets, using measuring gauge; feeds machine with paper and uses hand lever or foot treadle to operate knives and cut paper.

size mixer; puts ready prepared size (either vegetable or animal) into boiler containing heated water; stirs with wooden stirrer; draws off solution from top in boiler, and strains it through sieve into reservoir, ready for use by dipper, *g.v.*

teorter (card and pasteboard), *see* sorter, waste paper.

sorter, **esparto grass**; (i) removes dirt and impurities from esparto grass, on hand-manipulated wire screens; (ii) (in machine process) puts grass, with a lay fork, on travelling band or lattice or sorting machine.

teorter, **waste paper**; **waste sorter**; **sorter** (card and pasteboard); sorts waste paper, by hand, according to colour and quality.

sorting machine man, **esparto grass**; feeds, by means of a lay fork, a machine in which esparto grass is partially cleaned and sorted.

stacker; piles up sheets of paper or cardstock for stock or despatch purposes.

strainerman, *see* picker scraper.

stripper; separates hand-made sheets of paper from each other, by hand, in preparation for plate glazing.

thresher, *see* dusterman.

washerman; places felts used in making hand-made paper on rollers, by means of which they are mechanically drawn through water; regulates power which drives machine; removes felts and passes them to rougher (512) *g.v.*

water boy, **waterman**; adds requisite amount of water to rotary boilers in which certain raw materials, *c.g.*, rags, for paper are boiled.

twister softener; operates valves and cocks of water softening plant in paper mill, adds softening agent as instructed.

weigherman (card and pasteboard); supervises despatch of boards to landing department.

wet end boy; assists machineman (512) *g.v.* in attendance on wet end of board-making machine.

willawer, *see* dusterman.

Sub-Order 2.—Printers, Bookbinders, and Photographers.

021.—FOREMEN AND OVER-LOOKERS.

assistant overseer; *sub. overseer*; assists overseer (hand compositors) *g.v.* in control of any department which is too large to be supervised adequately by overseer in charge.

clicker; in charge of a composing section; duties vary in different establishments, but are mainly—(i) to receive copy in bulk from overseer *g.v.* and with it full instructions, (ii) to give copy out in portions to compositors (522, 523) *g.v.* working under him, with instructions; (iii) to keep account of copy given out; (iv) to superintend setting up of work; (v) (when wet is being done at presswork rates) to book each man's wages, extra, etc.; (vi) to produce a general bill, showing total cost at which work is produced.

controller hand; charge hand or foreman, over women and girls in any department of controller hand (530).

examiner, **bank note**; an examiner (printer's) *g.v.* specially skilled in examining bank notes.

examiner, **cheque**; an examiner (printer's) *g.v.* specially skilled in examining cheques.

examiner (printer's); **inspector**; examines in store-room printed sheets or forms as they come from machines to detect defects, sometimes also acts as foreman or forewoman.

foreman (wellpress, pattern room); superintends operation of various machines in pattern room of a paper factory and work of workers therein.

inspector; (i) a foreman inspecting output of printing machines; (ii) *see* examiner.

overlooker (lithographer's); (i) an overseer *g.v.* either generally, or in a section or department of works; (ii) examines sheets after printing.

overseer (bookbinder's); superintends book folding and binding department; responsible for discipline and conduct of staff and for quality and quantity of work done; receives instructions from manager or assistant manager of works; is sometimes responsible for estimate of cost of production.

overseer (hand compositors); in charge of composing room; supervises and arranges work for compositors (522, 523), *g.v.*, and gives instructions to clicker *g.v.* as to how work is to be done.

overseer (lithographer's); *as for* machine overseer (letterpress), in charge of lithographic printing department.

overseer, **machine** (letterpress); in charge of printing machine department and superintends the work of machine misters (522) *g.v.*; responsible for discipline and for quality and quantity of work produced; assists costing and estimating department in calculating prices.

sub-overseer, *see* assistant overseer.

022.—COMPOSITORS—HAND.

box hand, **fudge box hand**; a compositor *g.v.* who sets up type for "last news" or "stop press," which is put into a box and inserted in stereo cylinder.

case hand, *see* compositor.

compositor; **case hand type setter**; sets up type from which printing is to be done; picks out letters, etc., from compartments or "cases" in frame before him and arranges them in a grooved piece of wood, called a "stick"; when line is complete, transfers type to "galley," or long

tray from which first proof is pulled by pressman (529) *g.v.*; corrects type after proof has been checked by reader (548) *g.v.*

compositor (jobbing); a compositor *g.v.* engaged in general miscellaneous printing work, *c.g.*, handbills, tickets, catalogues, etc., as distinguished from those engaged in one particular branch of printing, especially newspaper printing.

compositor (music); a compositor *g.v.* who has been specially trained to set up music type.

imposer, *see* stone hand.

make-up, **make-up hand**; a compositor *g.v.* who makes up composed type into page form.

plate hand, **plate imposer**; a stone hand *g.v.* who puts electrolyte or stereotype plates into correct positions in chase for print.

plate-maker; imposes unmounted plates, *i.e.*, makes them on boards or blocks of suitable thickness to make plate type-high; backs or adjusts by affixing paper strips to get surface of plate absolutely true, and give clearer impression.

poster (hand); a combining compositor *g.v.* specially trained to set up type (often exceptionally large, and made of wood instead of metal) for printing posters.

stone hand; **imposer**; imposes type, which has been set up in page form, in correct position in chase or iron frame, for printing in sheets.

type setter, *see* compositor.

023.—COMPOSITORS—MACHINE OPERATIVES.

compositor (linotype), *see* linotype operator.

intertype operator; a linotype operator *g.v.*, operating intertype machine.

linotype man, *see* linotype operator; rarely used.

linotype operator; **compositor** (linotype), **linotype man**; depresses keys of keyboard of linotype machine (each key corresponding with letter of alphabet or typographical sign), thereby assembling matrices of type in line, from which, when complete, line of metal type is automatically cast as a single bar of metal.

monotype keyboard operator, **monotype operator**; operates monotype machine by depressing keys of keyboard, thereby punching paper roll, which is used by monotype center attendant (524) *g.v.*

stringer type machine operator; a linotype operator *g.v.* working at a stringer type machine.

typographical operator; a linotype operator *g.v.* operating typograph machine; adjusts batter strokes periodically by raising a lever.

024.—STEREOTYPES AND ELECTROTYPES.

backer-up; prepares back of copper shell received from electrotype *g.v.*, by brushing it with and (to act as flux) lays sheet of tin foil on shell; places whole in shallow pan over molten metal (lead or an alloy thereof), causing tin foil to melt and spread in an even layer over back of shell; removes tray containing tinned shell to bench, and pours molten metal over shell to gauged depth; when cool, hands to finisher (electro) *g.v.*

black leader; coats wax moulds, received from wax moulder *g.v.*, with powdered black lead by (i) brushing and polishing them with hand brush dipped in black lead; (ii) placing moulds in a machine fitted with revolving brushes and fed with black lead; finally places moulds under running water to remove superfluous black lead, and passes them to wax moulder or to electrotype *g.v.*

builder, ruler; applies wax by heated hand tool to wax mould of electroplate to produce depressions in parts of plate not to be printed.

caster, see founder (stereo).

caster, mechanical; *see* monotype caster attendant.

caster, monotype; *see* monotype caster attendant.

electrotypist; receives wax mould from black leader *q.v.*; suspends mould, on rod, in bath of sulphate of copper through which an electric current passes, causing deposit of copper to form a shell on mould; decides when deposition is complete; removes mould from bath and shell from mould and passes shell to backer-up *q.v.*

electrotypist's assistant; assists electrotypist *q.v.*

finisher (electro); *see* stereo finisher.

finisher (stereo); *see* stereo finisher.

founder (stereo); *caster, platemaker;* pours molten metal into casting box, which contains mould made from a "dog," i.e., sheet of brass paper and cartridge paper coated with paste, thus forming stereotype plate.

monotype caster assistant; *monotype caster operator's assistant;* assists monotype caster attendant *q.v.*

monotype caster attendant; *monotype caster operator;* mechanical caster; *monotype caster, monotype casting machine attendant;* operates and adjusts casting machine, which, when fed with paper roll punched by monotype keyboard operator (523) *q.v.*, produces required type.

monotype caster operator's assistant; *see* monotype caster assistant.

monotype casting machine attendant; *see* monotype caster attendant.

moulder (stereo); forms mould for making stereotype plates from a "dog," i.e., sheets of brass paper and cartridge paper coated with paste and damped with water; lays dog on surface of type or plate to be moulded, and beats with heavy brush; removes mould to form, presses and dries it in hand-manipulated hot press, and passes it to founder (stereo) *q.v.*

planer; *see* stereo finisher.

platemaker (stereo); term used in newspaper printing, *see* founder (stereo).

raiser; *see* builder.

steel facer; puts a steel face on electro of engraved plate by a secret process of electro-deposition and case-hardening.

stereo finisher; *finisher (electro), finisher (stereo), finisher, turner;* planes down backs of stereotypes or electrotypes to required thickness with planing machine.

stereotypist; general term denoting any man engaged in part of the process of stereotyping, e.g., founder, moulder or finisher *q.v.*

stereotypist's assistant; assists stereotypist *q.v.*

turner; *see* stereo finisher.

wax moulder (electro); pours molten wax from ladle on to metal plate or holder; after wax has set, firm and surface has been treated by black leader *q.v.*, lays photo-engraved plates, and/or type to be reproduced, face downwards on wax; presses whole in hydraulic press (hand or power operated); removes from press; lifts from wax, subjects which have been moulded; examines wax mould for defects, and passes it to black-leader again.

526.—PROCESS ENGRAVERS.

collytype photographer, collytype photographic operator; a photographer (process engraving) *q.v.* who obtains reversed negative of photograph, printing or drawing, from which a positive on a glass plate is made by collytype plate maker *q.v.*

collytype plate maker, collytype process operator; coats glass plate with hatched solution of gelatine, and dries it in a hot oven, thereby giving it a grained sensitive surface; prints positive on plate from prepared negative in camera.

engraver, half-tone; *see* etcher, half-tone.

engraver, photo, photographic engraver; *see* engraver, process.

engraver, process engraver, photo engraver (hand tooling); receives etched plate from etcher *q.v.*; examines plate with help of magnifying glass, and uses hand engraving tools to outline work for roller (543) *q.v.* if required, to remove whites, or high lights, from half tone plates, and defects or spots generally, to engrave borders on plates, burnish them and finish them generally for printing purposes.

engraver, process; process block engraver; photo engraver, photographic engraver, processman; general terms for anyone other than a photographer (process engraving) of a process engraver, etc. (hand tooling), employed in process engraving, including metal printer, deep etcher, and line etcher *q.v.*

engraver, wax; blackens brass plate with black lead, then coats it with white wax composition; suggests design by scratching through wax with scribbling tools, leaving plate exposed where lines are required in resulting print; may also, after engraving, blacken waxed plate and place it in electrolytic bath, thus depositing copper on surface; completes block; *cf.* electrotypist (524).

etcher; (i) in photo engraving trade, general term for any worker (monotype, *q.v.*, immerse, prepared metal, *q.v.*, brass, copper, etc., plates in acid baths to dissolve away the metal not protected by image or picture; includes colour etcher, line etcher, half-tone etcher, line etcher, process block etcher, and rough etcher *q.v.* (ii) also used in more restricted sense as equivalent of line etcher *q.v.*

etcher, colour; three colour process line etcher; a fine etcher *q.v.* engaged in three-colour process; specially skilled in "hitting" and retouching plates with an acid-resistant stopping-out ink so as to reproduce colour values of original sketch or picture.

etcher, deep; a fine etcher *q.v.* who retouches and works on plate by hand, using acid to deepen etching where runner or other similar tool would be too drastic.

etcher, fine; process fine etcher; etcher; an experienced etcher *q.v.* capable of under-taking all etching processes except line etching, *see* line etcher, "bites" i.e., immerses plate in bath of ferric chloride; steps out with acid-resistant etching ink parts to be lightly etched; deep etches to produce clean whites; sometimes also finishes plates with hand tooling, graver, etc.; also works over plates returned for further treatment.

etcher, fine, three-colour process; *see* etcher, colour.

etcher, half-tone; half-tone engraver; a fine etcher *q.v.* preparing plates to reproduce work in black and white (rather than line).

etcher, line; *etcho etcher;* an etcher *q.v.* producing plates in process of making line blocks, e.g., reproductions of black and white line drawings taken with printer's hand roller) to strengthen and protect lines against action of acid, by forming shoulders to lines; finally scrubs off accumulated ink, etc., from surface of plates with solution of warm potash; rolls plate again with hand finishing roller, and subjects it to final bath of acid to clean away protecting shoulders; passes plate to moulder (stereotypist) (543) *q.v.*

etcher, photographic; an etcher *q.v.* who treats copper plate or cylinder, prepared by photogravure, with a printer (543) *q.v.* in a bath of ferric

chloride, thereby obtaining a sunken or intaglio image of original photograph, painting, or drawing.

etcher, process block; general term covering colour etcher, line etcher, line etcher, rough etcher, etc. *q.v.*

etcher, rough; an etcher *q.v.* subjecting plates to a bath of acid to produce first or extra depth in etching, which such is required, particularly for newspaper illustrations prior to treatment by fine etcher *q.v.*; sometimes done by line etcher *q.v.*; terms nearly obsolete.

etcher, zinc; *see* etcher, line.

half-tone operator, half-tone process operator; *see* photographer (process engraving).

line operator; obtains negative of line drawing in same way as half-tone process operator, but without use of cross line screen.

offset-litho operator; a photographer *q.v.* who obtains a negative, not reversed in position, with or without using a screen; *cf.* photo-litho operator, used for posters, maps, stationery headings, paper bags, cartons, etc.

photographer (process engraving); half-tone operator, half-tone process operator (i) wet plate process; collodion over one surface of glass plate, and places it in a bath of silver nitrate for sensitizing; takes plate, in wet condition, in dark slide and camera, and exposes it; for half tone work, cross focuses and adjusts position of cross-line screen, i.e., a glass screen with network of fine lines; for line work, no screen is used; after exposure removes negative from dark slide and develops and fixes the image, if necessary, by immersing negative in bath of copper or silver solution or lead nitrate; passes negative to metal printer *q.v.* (ii) (dry plate process) or for wet plate process except that photographer does not prepare plate.

photographer process operator; general term covering half-tone process operator and three-colour process operator *q.v.*

photographer's studio operator; a photographer *q.v.* who obtains negative from photograph, drawing, or painting, and from this makes reversed positive on glass plate, by exposing to a source of light, negative and sensitized glass plate placed in contact.

photo-litho operator; a photographer *q.v.* who obtains negative, reversed in position, with or without using a screen, *cf.* offset-litho operator.

photo-operator (lithographer); photographs drawings to be lithographed; prints from negative on to collodion coated plate of aluminium or zinc in vacuum frame by means of mercury lamp, washes printed plate with cotton wool and water, to remove part of collodion film, leaving imprint of photograph; rolls with black (printer's) roller covered with ink, and washes off excess of ink; passes plate to gummer (lithographer) (549) *q.v.* for light etching.

printer, half-tone process; *see* printer, metal.

printer, metal; half-tone process printer; polishes copper or zinc plate by hand, using brass or rag, pumice powder and soft whiting; pours sensitive solution of gum and bicarbonate on one side of plate; attaches plate to hand-manipulated whirler, which whirles it to produce even coating of solution; when dry, places plate in contact with negative made by photographer (process engraving) *q.v.* in printing frame, and prints therefrom by means of arc lamps; after printing, washes plate in running water to dissolve away glue and bicarbonate; washes in solution of light; immerses plate in bath of aniline dye to bring up image or picture for examination for defects; again washes in running water; finally heats plate by holding it with pliers over a flame to burn image or picture into hard acid-resistant enamel; passes plate to etcher *q.v.*

printer, offset litho, *as for* printer, photo-litho process *q.v.* except that negative is not reversed.
printer, photo-litho process; obtains a positive print, for use in lithography, on paper or on thin grained metal, from a negative, by placing negative and paper or thin metal in contact in printing frame and exposing to sunlight or to arc lamp.
printer, three colour process; prints plates for use in colour printing by processes similar to those of metal printer *q.v.*

processman, see engraver, process.

three colour operator, three colour process operator, a photographer (process engraving) *q.v.* who makes three or four negatives, from coloured drawing or coloured still life subject, through colour-sensitive filters or panochromatic dry plates, adjusting cross-line screen at different angles in camera to avoid blurring or moiré effect; these negatives are afterwards used in production of sets of metal plates which, when superimposed by printer using different coloured inks for each plate, reproduce effect of original subject.

627.—PHOTOGRAPHERS.

artist, ferrotype, see photographer, artist.

artist, photographic; a photographer *q.v.* who aims specially at artistic results.

assistant, camera man's; is under-study and assistant to camera men *q.v.*

assistant, photographer's; photographer's shop assistant, photographic assistant, photographer's receptionist; deputises for photographer *q.v.* in shop or reception room, arranges style of portrait and adjusts pose of sitters, sometimes also takes photograph.

camera man; a technical operator who manipulates cinema camera; sets up camera on stand, adjusts shutter and diaphragm for correct exposure; fixes film in place; takes photographs by turning handle under direction of producer (832).

cinematographer; general term for any person skilled in cinematography, including camera man, film developer, and sometimes film producer (582) *q.v.*

developer, film; develops film negatives or positives in laboratory or dark room, using special film developing apparatus, fixes film on supports in tank, runs in developing solution for given time; places in fixing solution and washes in running water; hangs in drying chamber to dry; for cinema film developing, see machine minder (film developing).

developer, photographic; immerses plate or film in solution until it is sufficiently developed; rinses it in water and places in hypo (sodium thiosulphate), washes plate or film in running water, and allows it to dry, in works in subdued light that will not injure sensitive surface of plate.

drummer; drying room hand; winds cinema films from frames used in developing tank on to large revolving drums to dry; rewinds them, when dry, on to reels.

drying room hand, see drummer.

emansaler, photographic; polishes surface of finished photographs by spreading special polishing mixture on a smooth surface, *e.g.*, glass, placing print face downwards thereon, and pressing it with a small rubber squeegee.

enlarger; places original negative of photograph in an enlarging lantern; projects enlarged image, focused to required size and sharpness of outline, on to a screen; shuts off lantern screen, and exposes it to light of lantern; subsequently develops enlarged print.

equalizer (machine printing); adds fine semi-transparent mineral paper,

etc., to back of thin negatives, so that in machine bromide printing, where several negatives are printed on one sheet, density of all is uniform and exposure facilitated.

finisher, photographic; combines functions of mounter, print trimmer, retoucher, and spotter *q.v.*

fixer; hypo boy, washer; makes prints which are being fixed, *i.e.*, made permanent, under surface of solution of hypo (sodium thiosulphate) and prevents them from changing together, which would interfere with fixing process.

fixer, *hyp.* see fixer.

intensifier; increases contrast or density of a negative or of a print by immersing it in a bleaching agent, and then redeveloping image with an intensifying solution.

lantern slide maker; makes positives from original negative by re-photographing on a special lantern plate; binds up with plate of clear glass, to protect film side of plate.

liner-up, see retoucher.

machine minder (film developing); fixes film spread in developing machine, and fastens end of film to frame; film tank with developing solution; sets machine in motion to take film through solution in a given time; supervises washing and winding on drum for drying.

machine minder (film printing); operates machine which prints cinema films from negatives; fixes negative and positive films in machine, adjusts light and sets machine in motion to print from negative to positive at correct exposure.

mounter; (i) prepares adhesive and rubs it over back of print with a stiff brush; places print in position, previously marked on mount; applies roller squeegee to ensure perfect contact; (ii) sticks piece of adhesive tissue to back of print with a hot tool; sticks tissue to mount, in correct position, with same tool; then puts mount and print in hot press.

operator, photographic, see photographer.

perforator minder; is in charge of machine which perforates blank films. **photographer; photographic operator;** obtains images by chemical agency of light upon sensitive surfaces, may be directly responsible for all processes, from exposing plate in camera to producing finished print; or may only expose plate, leaving further action to assistants.

photographer, street; itinerant photographer; ferrotype artist; does photography out of doors by ferrotype process; uses a tin or iron plate as support for pictures, and prepares face of metal by immersing it in collodion sensitized with a silver salt; exposes it in camera while wet; builds up pictures with an iron developing agent, and fixes it by soaking in a solution of sodium cyanide.

photographer, title, see title maker. **photographer, travelling;** travels about the country photographing special subjects, *e.g.*, scenery for picture postcard agency, or machinery for an engineering contractor. **photographer's receptionist, see** assistant, photographer's.

printer, bromide; exposes paper, coated with a gelatine emulsion of silver bromide, under a negative to artificial light; develops, washes and fixes print, generally by hand, but sometimes by machinery; gives further toning treatment if print other than black is required.

printer, carbon; prints photographs from negatives by using sensitized gelatine tissue, which is subsequently washed to remove portions unacted upon; mounts remaining tissue which forms picture upon glass, paper, or other support.

printer, collodion, see printer, P.O.P. **printer, film printer;** takes charge of machine by which cinema films are printed from negatives.

printer, photographic; (i) in photographic industry, combines duties of

bromide printer, carbon printer, P.O.P. printer, and platinotype printer *q.v.*, etc. in small establishments; (ii) in lithographic industry, prints from photograph, on photo-lithographic paper, image which can then be transferred to lithographic stone.

printer, platinotype; exposes paper, coated with a solution of potassium chloroplatinate mixed with a solution of ferric oxalate, under a negative to daylight; develops exposed print in a solution of neutral potassium oxalate, producing a picture in pure metallic platinum black; clears print by passing it through three baths of acidified water, to remove all traces of iron; washes print, and dries it off.

printer, P.O.P.; collodion printer; prints photograph by placing specially prepared paper behind a negative in a printing frame and exposing it to light; tones print in a bath containing chloride of gold; washes it; fixes image by immersing same in a bath of hypo (sodium thiosulphate); washes it in running water, and allows it to dry. **print trimmer;** cuts off with a knife, from finished print placed on cutting board, parts which disturb balance of picture.

retoucher; *liner-up;* works up negative by hand to remove defects; lessens density by scraping film of negative with a knife, or increases it with a lead pencil; also points in titles at edge of negative. **spotter;** (i) fills in holes and other defects in negative with water colour paint or pencil to match surrounding tints; (ii) remedies defects on finished prints.

stainer, film, see tinter, film.

stereographer; trims and mounts pictures, by hand, so that each is in correct relation for use in stereoscope. tinter, film; film stainer; measures out quantity of dye required, and puts it in a tank containing water; places cinematograph films on tray, and submerges tray in dye tank, by hand; removes tray for drying process; sometimes also performs work of washer and tinter *q.v.*

title maker, title printer; title photographer; is in charge of camera with fixed lighting stand for photographing title cards, for cinema films.

tinter; paints in titles at foot of lantern slide or photographic negative with small retouching brush and opaque quick-drying paint; *cf.* retoucher.

toner; changes colour of a photograph by staining its chemical composition or by adding another metal deposit; passes print through toning solution; fixes, washes, and dries it.

washer, see fixer.

washer and tinter; washing room hand; is in charge of washing cinema films wound on frames after development; if film is to be tinted; also does work of film tinter *q.v.*

washing-room hand, see washer and tinter.

winder, frame; winds exposed cinema film on frames in dark room before development.

628.—LITHOGRAPHIC ARTISTS AND TRANSFERERS.

artist, autograph; a lithographic draughtsman *q.v.* who copies signatures or hand-writing, either on to lithographic stone, or on to paper from which designs are transferred to stone.

artist, chrome; works upon stones to be used for reproduction of designs in colour by lithographic process; applies on each of the stones used for a given design an amount of chalk corresponding to the strength of the colour at each point, and is thus responsible for reproduction of colour values in original drawing, also often applies lithographic ink with a brush, to retouch and strengthen drawing.

artist, lithographic; an artist either engaged in original work for reproduction by lithographic process, or acting as lithographic draughtsman, *q.v.* or as chromo-artist, *q.v.* (formerly design lithographic transfers for use in decoration of pottery, earthenware and china.

artist, monochrome; a lithographic artist *q.v.* who works in one colour.

cartographer, cartographer; see draughtsman, geographical; *cf.* cartographic (585).

colourer, colourist, plan, see map colourer.

colourer, print; applies colour by hand to printed outlines on lithographic stone.

designer, lithographic designer; designs borders, end-pieces, monograms, lettering, etc., for reproduction by lithographic process.

draughtsman, geographical; cartographer, cartographer; topographer; draws map, and prepares for its reproduction by engraving or by lithographic process, by indicating colours to be used, lettering, etc.; is responsible for its geographical accuracy, for correct enlargement or reduction of scale, and for accuracy of colouring.

draughtsman, lithographic; printer's draughtsman; facsimilist; copies or traces design on paper from which it is transferred to stone, or on steel facsimilist, see draughtsman, lithographic.

lithographic writer; a lithographic draughtsman *q.v.* skilled in lettering.

map colourer, map colourist; plan colourer, plan colourist; time drawing prepared by geographical draughtsman *q.v.* before printing by lithographic process; or colours by hand, maps printed in black and white.

print stenciller; colours maps or prints, or marks patterns on paper, with stencil plates and liquid colours, or by means of an aerograph, an instrument working by compressed air, which discharges colour in form of fine spray from nozzle.

stippler (lithographer's); a lithographic artist *q.v.* who obtains effects of graduated tones by stippling.

topographer, see draughtsman, geographical.

transfer engraver; engraves copper or steel plates, for printing transfers for lithographic machines.

transferer; (i) see transfer maker; (ii) combines functions of transfer maker and transfer puller *q.v.*

transfer maker; transferer; works over red chalk drawing of original, on transfer paper, with lithographic chalks, in preparation for transferring it to stone; sometimes also acts as transfer puller *q.v.*

transfer patcher; applies patches to transfers, to alter small details, *e.g.*, agent's name on an advertisement, and thus save making fresh transfer.

transfer printer; printer, with lithographic ink upon litho paper, design from engraved plate which is to be reproduced by lithographic process, as in music printing.

transfer puller (lithographer's); pulls small copper plate from lithographic stone, and, with hand press, prints transfers (or copies from original) which he then pulls off plate or stone; or applies transfer to warm stone; pulls it through press; wets transfer and peels it off.

229.—PRINTING MACHINE SETTERS AND MINDERS.

cropper hand, see machine minder, plates.

lithographer, see printer, lithographic.

machine manager, printing machine manager; lithographic machine manager; a machine minder *q.v.* in a large printing works.

machine minder, printing machine minder; printing machine setter; adjusts packing of cylinder, so that all parts of work receive correct pressure; adds "overlays" to increase pressure, and to obtain depth of tone

when work includes illustration. attends to defects in running of machine as they occur, and is responsible generally for way in which printed sheet is turned out; sometimes specifically designated according to kind of machine, *e.g.*, letterpress machine minder, cylinder machine minder, rotary machine minder, machine minder, lithographic; in machine minder, lithographic machine, either flat-bed or rotary, makes ready for printing, sees that stone is retaining design and examines prints as they are taken off.

machine minder, platen; copper hand; has charge of platen machine; makes ready for printing by so adjusting packing of platen that all parts of work receive correct pressure; often does laying on and taking off.

machine minder, process; process printer; a machine minder *q.v.* who is specially skilled in setting up process blocks in printing machine and printing from process blocks.

machine minder, tin plate; tin plate minder, tin printer, tin printer; in charge of special type of flat-bed or rotary lithographic machine, which prints from stone, aluminium, or zinc on to tin sheets; work similar to that of lithographic machine minder *q.v.*

machine minder, zincographic, see printer, zincographic.

map maker; a lithographic printer *q.v.* who prints maps.

printer, aluminium, as for printer, lithographic.

printer, aluminium rotary; a lithographic printer *q.v.* who prints from aluminium plates, on machine similar in principle to rotary printing machine.

printer, anastatic; prints from anastatic characters etched in relief on zinc plates, by hand press or machine.

printer, art; fine art printer; terms loosely applied to a machine minder *q.v.* skilled in any printing such as process block printing or photo-graphy.

printer, bank note; a machine minder *q.v.* printing bank notes usually from a steel plate.

printer, cheque; a plate printer, machine minder, or lithographic printer *q.v.* engaged in printing cheques.

printer, chromo-lithographic; colour printer, printer in colours; lithographic machine minder *q.v.* specializing in colour printing; ensures that each colour, as printed, is in exact register to remainder of print.

printer, colliotype; colliotype machine printer; a printing machine minder *q.v.* who produces illustrations from colliotype plates in a colliotype printing press.

printer, colour; printer in colours, see printer, chromo-lithographic.

printer, cycle transfer; a lithographic machine minder or printer *q.v.* who works on specially prepared transfer paper, of paper coated and made transparent so that design can be again transferred to enamelled surface of cycle head.

printer, enamel goods; a lithographic printer *q.v.* who inks litho stone with hand roller, lays on sheet of celluloid, rubs celluloid into contact with stone by means of wooden tool, places inked celluloid sheet in correct position on enamel ware and transfers ink to ware by rubbing; enamel ware is then ready to be fired; cleans celluloid sheets and litho stone.

printer, envelope; a platen machine minder *q.v.* who feeds automatic printing machine which prints lettering or heading on envelope.

printer, heraldic; a machine minder *q.v.* setting up and supervising the running of one or more machines distemping heraldic devices.

printer, ink; uses sample inks in ink factory in printing press to test quality of ink manufactured.

printer, intaglio; photogravure machine printer; places metal intaglio cylinder in position in machine, sets roll of paper and adjusts machine for even printing; fills and empties colour troughs, controls machine by means of levers; stops and adjusts machine, if necessary, during printing.

printer, letterpress; a printing machine minder *q.v.* who does ordinary printing as distinguished from illustration work such as lithography or process block printing.

printer, lithographic; lithographer; general term for workers who print from stone, aluminium, or zinc prepared by lithographic process, including transferers (528), printers (548), and machine minder *q.v.*

printer, music; a letterpress, lithographic or zincographic machine minder *q.v.* printing music.

printer, numerical; a machine minder *q.v.* operating machine either of the platen or cylinder type, who has knowledge of chess which operates automatic numbering mechanism.

printer, oil colour; a lithographic machine minder or printer *q.v.* who prints in oil colours.

printer, oleographic; a chromo-lithographic printer *q.v.* who prints oleographs.

printer, paper bag; a platen machine minder *q.v.* printing paper bags.

printer, photogravure hand-plate; produces illustrations from a flat etched copper, *i.e.*, photogravure plate, by rubbing ink into it, cleaning surface, and printing from it on to damp paper brought into contact with plate under hand-operated rollers.

printer, photogravure machine, see printer, intaglio.

printer, plate; prints from copper or steel plates, on which design or lettering is sunk below surface of plate, instead of being raised as in letterpress work; covers plate with ink which is rubbed into design; wipes off excess of ink, and passes plate protected by blankets, through hand press; sometimes specifically designated, *e.g.*, copper plate printer, steel plate printer.

printer, playing cards; a machine minder *q.v.* specially skilled in printing playing cards, which are usually produced by letterpress printing; has to exercise care in obtaining an even distribution of ink.

printer, post card; a machine minder *q.v.* printing post cards in large sheets by letterpress or lithographic methods.

printer, process, see machine minder, process.

printer, ticket; sets up and supervises working of ticket printing and numbering machines by semi-skilled assistants.

printer, tin; tin box printer, tin plate printer, see machine minder, tin plate.

printer, zincographic; zinc printer; zincographic machine minder; a lithographic printer *q.v.* using zinc plates instead of stones; aluminium printer *q.v.* may sometimes be called a zinc printer.

printing machine setter, see machine minder.

reeler, reel ticket maker; prints reels of revenue tickets for entertainment taxation or reels of any other kind of ticket on special machines.

three colour worker; makes colour impressions by superimposing three primary colours (blue, yellow, and red) on sheets in machines; operates letterpress printing machine, and prints from three-colour (or four-colour) process blocks; work sometimes done by lithographic process; *cf.* chromo-lithographic printer.

tin plaster, *see* machine mender, template.
 transferer, transfer printer (template); prints transfers from engraved plate on to paper stock, on a flat-bed machine (see plate machine mender, 529); applies paper to sized surface of template, by means of roller, and leaves to dry; washes paper off when dry, leaving transfer attached to surface of tin box, etc., which is to be decorated.
 wharfedale machinist; a machine mender *q.v.* in charge of wharfedale machine.

530.—MACHINE ASSISTANTS.

brake hand, brakeman, *see* controller hand.
 controller hand; brake hand, brakeman, printer's *striker*, *striker* hand; is first hand on a rotary newspaper printing machine, after machine mender *q.v.*; strikes a lever or operates switches to start or stop machine; adjusts brake on paper reel to keep constant the speed of paper as it revolves, *see* version hand; in mender's absence, is fully capable of running machine.
 cropper boy, cropper lad; (i) *see* feeder plate; (ii) an assistant to plate machine mender (529) *q.v.*
 feeder, machine feeder; *layer-on*, machine *layer-on*, *striker*; places paper in position by gauges, sheets of paper to be automatically drawn into printing machine; sometimes specially designated according to machine, *e.g.*, lithographic machine feeder; *plate feeder*, lithographic machine; *tin printing machine feeder*; puts blank tin sheets in tin printing machine and takes them out after impression has been made.
 feeder, machine ruler; machine ruler *layer-on*, machine ruler's assistant, *ruletin* (ruling), ruler's feeder, ruling machine feeder; passes sheets to be ruled into machine ruler; watches to see ink reservoirs remain filled and that ruling is properly done; assists generally machine ruler (533) *q.v.*
 feeder, platen; *cropper boy*, *cropper* lad, platen *layer-on*, printer's *machinist*; a feeder *q.v.* who lays unprinted sheets on platen of printing machine, with one hand, and takes out printed sheet with the other.
 feeder, ruling machine; ruler's feeder, *see* feeder, machine ruler.
 feeder, tin printing machine; *see* feeder, lithographic machine.
 flyer, machine flyer, *see* taker-off.

fly hand (newspapers); takes off folded papers in quantities at delivery end of newspaper printing machine; helps brake hand *q.v.* to join paper in cases of breakages.
 layer-on, machine layer-on, *see* feeder.
 layer-on, machine ruler, *see* feeder, machine ruler.
 layer-on, platen, *see* feeder, platen.
 machine assistant, machine attendant, machine hand, machine operator; printer's assistant, operative printer's assistant, printer's *machinist*, printer's operative, printer's operator; *chief* machine, *chief* rollers, often acts as feeder, taker-off *q.v.*, etc.; sometimes specifically designated according to machine, *e.g.*, lithographic machine assistant.
 machine boy, machine lad, as for machine assistant.
 machine ruling assistant, *see* feeder, machine ruler.
 machinist, printer's; (i) *see* feeder, platen; (ii) *see* machine assistant.
 paper wetter; soaks up paper when it breaks in machine continuously fed with paper roll; work frequently done by brake hand *q.v.*
 plate hand; a machine assistant *q.v.* mending a small machine in which a plate, printing multiple reproductions of a single design or lay-out, is used, *e.g.*, for labels.

pointer; a feeder *q.v.* who attends to "press points" or "register points" in printing machine; when sheet of paper is fed into gauges for first-side printing, these points pierce it; and, when second side is printed, pointer lays sheet so that holes fall exactly on corresponding points, thus obtaining "register" of pointer (569).
 printer's assistant, operative printer's assistant, printer's operative, printer's operator, *see* machine assistants.
 printer's *striker*, *see* controller hand.
 puttin-in (ruling), *see* feeder, machine ruler.
 reel hand; *spindler*; a machine assistant *q.v.* who fits reels of paper into a rotary printing machine, in some cases puts spindles through reels; affixes brake by hand; adjusts distance of reel from brake with standard wooden stick and by tightening nuts on spindle; operates by lever electric hoist which raises reel into position for printing machine; work sometimes done by controller hand *q.v.*
 roller; applies ink rollers to forme, by hand, for pressman (548) *q.v.*; work usually done by apprentices.

spindler (printing works), *see* reel hand.
 striker hand, *see* controller hand.
 stroker-in, *see* feeder.
 taker-off, machine taker-off; *flyer*, machine *flyer*; takes sheets from printing machine (either platen or cylinder) where not automatically delivered by machine; sometimes specifically designated by name of machine, *e.g.*, lithographic machine taker-off.
 tension hand; controls tension of paper as it unwinds from reels on rotary printing machines; stops machine when it breaks and takes paper end by hand through rollers before machine is restarted.
 wetter; dampens before printing, either by use of fine spray or by pressing in power press with interleaved absorbent paper which has been previously wetted.

531.—PRINTERS (so-called).

printer; *typographer*; general term for any person, usually skilled, engaged in printing industry, including machine minders (529), lithographers (529), etc.; the senior machine minder in a printing works is often so-called, *typographer*, *see* printer.

532.—BOOKBINDERS.

album maker; cuts out cardboard, leaves and covers, by hand, with sharp knife; makes them up into albums for stamps, photographs, etc., and passes to sewer (hand or machine) *q.v.*
 all-round hand; general hand; is skilled in all branches of bookbinding; *see* finish binder, stationer's binder, forwarder, case maker, blocker (537), etc.; usually employed in small bindery establishments.
 back hanger; fixes piece of mull or cotton to back of book, by hand, and also strip of paper, to strengthen binding, after book is rounded and blocked.
 binder, *see* bookbinder.
 binder, account book, *see* binder, stationer's.
 binder (cheque book), *see* wrapper.
 binder (cloth); binds books in cloth; may be either publisher's binder or stationer's binder *q.v.*
 binder, flush; glues up books and affixes boards; presses book, puts on cloth or leather back and pastes down end papers; cuts book flush with edge of cover at top, bottom and fore-edge, by hand or power-operated guillotine.
 binder, leather; a bookbinder *q.v.*

binding books in leather, by hand, may be either publisher's binder, stationer's binder, or miscellaneous letterpress binder *q.v.*
 binder, publisher's; letterpress binder; combines work of forwarder, case maker, blocker (537) *q.v.*; puts book into case either by hand or by machine; presses book.
 binder, stationer's; account book binder, vellum binder; as for forwarder, except that (i) work is done by hand, (ii) operation of blocking is usually omitted, (iii) covers are not made apart from book; fixes split boards to tapes; covers them with leather, buckram or cloth and impression design or lettering on cover with hand tools.
 binder, vellum, *see* binder, stationer's.
 bookbinder; binder; general term for any skilled worker engaged in book-binding; includes forwarder, case maker, and all classes of binders *q.v.*
 book cover paper; brass brass caps on edge of cover to clasp and keep book tightly closed.
 book cover maker, *see* case maker.
 case maker (hand process); book cover maker; receives cloth, straw-boards and blank papers for covers ready cut; glues cloth; places straw-boards in position on cloth with help of gauge; sticks "back paper" between the two boards to stiffen back of case; cuts off corners of cloth with shears, and turns edges inward; rubs cloth side with folder, to prevent blisters, and bangs up case to dry before passing it to blocker (537) *q.v.*
 case-making machine operator; feeds cloth to guides, which direct it into case-making machine, which glues cloth, places boards and stiff back paper in position and completes case.
 coverer; puts cover on book and places it in press; in letterpress binding, pastes together cover and book which have been completed separately; in account and miscellaneous book binding, covers covers cloth into machine, and pastes book to leather, cloth, etc., and passes book to finisher *q.v.* for lettering.
 Crawley operator; puts books in position in a power-driven machine, known as Crawley machine, which automatically performs operations of rounding and backing.
 cutter, cloth; *cuttin-out*, material cutter; cuts up rolls of cloth in a cutting machine; adjusts gauge to width required; moves lever to start machine; passes cloth into machine, and removes it when cut.
 cutter, machine; trimmer; operates, with a treadle, guillotine cutter which holds book firmly while knives come down and trim off three paper edges of book, *i.e.*, head, fore-edge, and tail.
 cutter, material, *see* cutter, cloth.
 cutter-out, machine; cuts edges or sections of paper to shape and size for book, by hand or press operated cutting machine.
 examiner; inspects book after binding is complete to rectify faults.
 finisher; finishes covers of books with heated hand tools and/or in a hand-manipulated hot press; glues boards, and initials designs or lettering in colour, and completes binding generally after covering.
 folio maker; a bookbinder *q.v.* who specialises in making folio books *i.e.*, large books in which the printed sheet is folded only once and thus makes only two sheets on four pages.
 forwarder (cloth, leather); blocker, refeller; does actual binding of book after it has been sewn; pipes or presses book in slipping machine to make it solid; trims edges on guillotine machine; glues up and attaches first lining of mull by hand; rounds and backs book on machine, or by hand, and attaches second lining of paper by hand; affixes boards and covers book wholly or partly in leather, cloth, etc.

general hand, see all-round hand

head bander; affixes ready-made band, by hand, with adhesive, to head and tail of book to give a better finish; in *high-class work*, also makes band, by hand, by weaving coloured silks, joint makers, before binding, sticks strips of cloth to end papers of book by hand, with adhesive, to strengthen it and to serve as a hinge.

leather case maker, **leather case book maker**; a case maker *q.v.* making covers, or book covers, of leather, generally by hand.

leather embosser; embosses designs on leather cover of book, either by hand-manipulated hot press or by hand tool.

liner, **straw board liner**; *winder*; glues or pastes sheets of paper to straw boards by machine or hand.

mounter, see *liner*.

mounter, **book**; fixes, by hand, brass or other metal edging on corners and edges of book covers to save wear and tear; *cf.* book clasper.

portfolio maker; a case maker *q.v.* specialising in making, by hand, of portfolios.

roller, see *forwarder*.

rounder; taps back of glued up book with hammer to make it round; sometimes done by *forwarder q.v.*

sewer (hand or machine), **sewer** (stationery book), **sewer** (vellum); joins together sections of book by machine or hand sewing; in best class of work, stitches by hand, on to tapes or cords, which are afterwards fixed to cover of book.

stitcher; sews together sheets of pamphlets either by hand or machine; in the latter case, usually makes "three book" stitch in fold of pamphlet or $\frac{1}{2}$ -inch from back.

trimmar, see *cutter*, *machine*.

vellum binder; cuts backs of ledgers out of straw-board or cloth-board and fixes them on book; work sometimes done by vellum binder or stationer's binder *q.v.*

wrappper; **binder** (*cheque book*); glues back of unbound book, the sheets of which are fastened together either by wire or thread, and fastens round it paper cover called a *wrapper*; may perform the work either by hand or by machine.

533.—MACHINE RULERS.

paper ruler (*hand*); rules up, by hand, copies of ruled paper for account books, ledger forms, etc., to show how paper will appear when ruled by machine ruler; work usually done by machine paper ruler *q.v.*, but ruling of proof requires special care.

paper ruler (*machine*); machine ruler, ruling machine ruler; superintends machine ruler, which rules lines for account books, ledger forms, etc.; sets up pens in required position in machines equipped with pens (some machines have dies instead of pens), and regulates supply of ink.

ruler, **account book ruler**, **paper ruler**, **printer's ruler**; general terms covering hand and machine paper rulers.

ruler, **machine**, see *paper ruler* (*machine*).

rolling machine minder, see *paper ruler* (*machine*).

534.—PATTERN CARD MAKERS.

pattern book maker; arranges fabric patterns according to shade for insertion in pattern book or bundle of patterns, and binds them together.

pattern card maker (*stationery*); cuts out pattern cards from sheets of cardboard by rotary cutting machine.

pattern room worker (*wallpaper*); collects and collates patterns of wall-papers; re-cuts them to take out card, and binds them into books.

535.—WALL PAPER PRINTERS.—BLOCK.

block printer; lays colour on stereo, i.e., a felt covered frame, with a brush, and presses wooden pattern block on it; raises block, by hand, or in large pattern work, by means of elastic to which block is suspended, and wrings it round; carefully presses block on paper to correspond exactly, or register, with pattern.

decorator (*paper staining*); elaborates design on high class printed wallpaper by printing, with hand stencils in gold, silver, and special colours.

stenciller, **stencil worker**; supplies designs on wallpaper with a brush, using stencil plates and distemper colour.

536.—WALL PAPER PRINTERS.—MACHINE.

colourer, see *grinder*.

enameller; coats surface of paper with enamel by means of a grinding machine; *cf.* *baryta coater* (*516*).

grainer (*paper staining*); a machine printer *q.v.* operating machine fitted with rollers on which pattern resembling grain of wood is engraved.

grinder; **colourer**, **padding** **machinist**; as for machine printer (*paper staining*); attends machine which produces ground or plain paper, i.e., a plain that serving as foundation for pattern of wallpaper.

machine printer (*paper staining*), **machinist** (*wall paper*); **printer** (*wall paper*); fits rolls of plain paper into wallpaper printing machine; fills boxes with colour from a can; switches on power which drives machine and sees that machine is printing properly.

padding machinist, see *grinder*, **printer** (*wallpaper*), see *machine printer* (*paper staining*).

537.—GOLD AND SILVER BLOCKERS AND STAMPERS.

blocker (*lead pencil making*), see *glider* (*lead pencil making*).

blocker, **blind**; stamps in design on book cover or other article, with metal stamp, in hand or power driven press, without ink or colour.

blocker, **colour**; **ink blocker**; stamps in design on book cover or other article, with metal stamp, in hand or power-driven press, after applying coloured ink to stamp.

blocker, **foil**, as for *blocker*, *gold*, but uses foil instead of gold leaf.

blocker, **gold**; **gold printer**, **gold blocker**; prepares material, *q.v.* leather, cloth, vellum, plush, or paper, for book covers, hat leathers, hat labels, etc., with size, blocking powder or glair; after gold leaf is applied by layer-on of gold *q.v.*, stamps in design with hot metal stamp (*hand or steam driven press*), brushes off surplus gold, not impressed by stamp, into gold bin; sometimes presses a blind impression, i.e., without gold, on material before stamping is done.

blocker, **ink**, see *blocker*, *colour*.

blocker, **silver**; **silver printer**, **silver stamper**; as for *gold blocker q.v.*, but uses silver instead of gold leaf.

blocking feeder; feeds cards or other material into press together with leaf or foil; controls press by means of foot lever.

brusher, **gold** (*printer's*); brushes off surplus gold, not impressed by stamp, into gold bin; *cf.* *duster* (*538*).

brusher, **gold**, **printer's**; a gold blocker *q.v.* who stamps trade mark, name, etc., on leather lining or label which is put inside hat.

finisher, **gold**; stamps design on cover of book with hand tools; applies gold leaf to design and stamps in gold leaf; does same work as gold blocker *q.v.*, but by hand tools instead of by machine.

glider (*lead pencil making*); **blocker**, **stamper** (*lead pencil making*); presses heated steel stamp on pencil and applies gold leaf or aluminium powder, which adheres to impression.

gold and silver printer; contains work of gold blocker and silver blocker *q.v.*; may also do work of bronze letter printer (*538*) *q.v.*

gold printer, see *blocker*, *gold*.

hat printer, see *embosser* (*hats*).

hat tip gold printer; a hat tip printer *q.v.* printing gold on hats.

hat tip printer; **tip printer**; a gold blocker *q.v.* or a bronze letter printer (*538*) *q.v.* who prints "tips" (circular pieces of lining, made of silk, and placed inside crown of hat) with trade mark, name of maker or of retailer, etc. in black or in gold or by lithographic process.

label printer (*hat labels*); an embosser *q.v.* engaged in printing labels to be affixed inside hats.

layer-on, **gold** (*printer's*); lays on gold leaf or applies gold dust, by hand, to paper pointed with size.

layer-on of **gold** (*bookbinder's*); cuts up very thin sheets of gold leaf and lays them, by means of slightly greasy pad of hair or camel's wool, on that part of calendar or cloth cover of book on which design is to be embossed; usually done by finisher or by gold blocker *q.v.*

metal leaf ticket printer; prints tickets or labels with gold or silver leaf by means of heated press; fixes leaf on sunk letters on these tickets or blocks.

silver printer, see *blocker*, *silver*.

stamper (*lead pencils*), see *glider* (*lead pencils*).

stamped, **gold**, see *blocker*, *gold*.

stamper, **silver**, see *blocker*, *silver*.

stamper, **printer's**; general term which covers blind, colour, foil, gold, ink and silver blockers.

tip printer, see *hat tip printer*.

538.—BRONZERS.

bronze letter printer; a bronzer *q.v.* who operates plates printing machine applying size instead of ink, passes steel type printed to bronzing machine minder *q.v.*

bronzer, **printer's bronzer**; **printer's glider**; general terms for anyone engaged in bronze printing; usually applied to bronzer letter printer, bronzing machine minder, duster, or metaliser *q.v.*

bronzer, **card**; **card edge glider**, **card glider**; paints card or card edges, with size and puts on bronze dust either by hand or by machine, burnishing by machine when required.

bronzer, **lithographer**; applies bronze, by hand, with pad, to paper mounted in glue or size by lithographic process.

duster, **duster-off**; (i) removes, by hand, with brush or pad, metal powder, flock, etc., from parts which have not been sized; (ii) holds prints under nozzle of suction pump, which sucks off surplus metal powder.

edger, **glit**, see *glider* (*bookbinder's*).

finisher, **card**, see *glider*, *card*.

glider (*paper staining*); (i) a block printer (*537*) *q.v.* who prints with liquid gold; (ii) prints wall paper with size and passes it through bronzing machine, by which metallo powder is applied and the surplus powder drawn off by suction; *cf.* *bronzing machine minder*.

glider, **book-edge glider**, **edge glider** (*bookbinder's*); old edger; places book after trimming in press, and scrapes edges until perfectly smooth; brushes edges over with size, lays on gold leaf and allows it to dry; finally burnishes gold leaf by hand with a tool; in some cases, applies colour to edges before gliding, thus producing "red under gold" edges.

glider, **card**, **card edge glider**; **card finisher**, **printer's glider**; (i) (card edge gliding) places cards in press after they are trimmed and scrapes edges until perfectly smooth; brushes them over with size, lays on gold leaf and allows it to dry; burnishes gold leaf by hand with agate or bloodstone burnishing tool; (ii) see *bronzer*, *card*.

gilder, mount; a card edge gilder *q.v.* who gilds edges of mounts.
 gilder, passe-partout; applies size and bronze dust by means of machine to passe-partout binding.
 gilder, printer's; (i) see gilder, card; (ii) see bronzer.

machine feeder, bronzing (lithographer's or printer's); takes sheets after they have had parts of their surface printed or coated with size and places them in bronzing machine.
 machine minder, bronzing; is in charge of bronzing machine, sets and adjusts it for correct working, replenishes bronze dust box; cleans and sets working parts; takes sheets of paper off machine after bronzing, and examines them.

metallizer; lays sheets of Dutch metal (bronze) or gold leaf on work previously painted with size.

540.—OTHER SKILLED WORKERS.

aerographer, aerograph worker, aerograph artist; sprays paint through aerograph pencil by compressed air to produce colour designs on Christmas cards, wallpapers, or any painted surface, with or without use of stencils.
 almanac maker; makes calendar by affixing, in correct order, printed sheets (each giving a day or a month) to card foundation, using gum, wire stitching machine, etc.

are light printer; (i) see blue printer; (ii) see phototype printer.

beveler; cuts stereotypy, electrotypes, or process plates to required size on guillotine machine and finishes with bevelled edges on a power beveling machine or by means of hand plane.
 block maker, see mounter (stereotyping).

blue printer; are light printer; produces copies (white lines on blue ground) of engineer's drawings or architect's plans, by exposing tracing of drawing over sensitized paper (ferro-prussiate, etc.) in a printing frame to sunlight or are light, developing and washing print in large flat dishes or sinks, and drying; may also work by phototype process, producing copies with black lines on white ground, see phototype printer.

board chopper (bookbinder's); cuts strawboard or millboard with board-cutting machine or guillotine by placing board against gauges, and pulling lever or otherwise operating machine.

brusher (paper staining), see glaser.

Christmas card maker, birthday card maker; attaches suitable printed slip to ornamental cover and ties together with ribbon, etc.

cleaner, lithographic plate or stone; removes old designs from lithographic plates or stones, by grinding or by use of chemicals; usual name is lithographic plate or stone grinder *q.v.*
 colourer, photographic; paints over photographs in water colours or oils; sometimes previously prepares surface with a flat wash of some special medium.

copyholder; manuscript reader's assistant, reader's boy, reading boy; reads aloud from original manuscript or copy, while reader *q.v.* or corrector of the press *q.v.* checks printed proof.

corrector, *see* picker.

corrector of the press, press corrector; press reader, press reviewer; a reader *q.v.*, proof reading for newspapers.

counter, paper counter; teller; counts and piles sheets in numbered groups before cutting or despatch.

cutter, guillotine; machine cutter, paper cutter, printer's cutter; adjusts paper on bed of cutting machine, bringing it into exact position under knife; clamps pile of paper with heavy iron clamps, and moves lever which releases heavy knife.

cutter, index; places required number of book leaves, folio sheets, etc. on machine; adjusts cutter of machine; presses a foot lever which brings down cutter, and cuts sheets or leaves to shape and size required; passes cut material to numberer (549) *q.v.*

cutter, label; a guillotine cutter *q.v.* or a shear cutter *q.v.* who trims edges of labels.
 cutter, machine; paper cutter, see cutter, guillotine.

cutter, playing card; cuts up printed sheets into playing cards by means of rotary cutting machine.

cutter, printer's, see cutter, guillotine.

cutter, shear; cuts edges of showcards, strawboards, etc., with hand lever shears.

cuttermen (wall paper); cuts, by paper into lengths of 12 yards, each piece being 22 inches wide.
 designer (paper staining), paper hangings designer; designs, draws and colours patterns for wall paper.

designer, printer's; arranges "lay out" for advertisements, etc.; is often a specially skilled compositor (522) *q.v.*

engineer's photo printer, see phototype printer.

flicker (paper staining); presses block covered with size on paper as in block printing, *cf.* block printer (535); passes paper, so printed, through drum or trough of linen filled with wool or silk floss, and beats underneath drum to make floss adhere to paper.
 folder, book folder (bookbinder's); receives printed sheets in position in which they leave printer's hands and folds them by means of a small wooden or bone spatula, so that pages run in numerical order and are in register; folding for ordinary book-binding is usually done by machine, *cf.* folding machine feeder (549).

glaser (paper staining); brusher; (i) fixes coat of paper on rollers of brushing machine, used to produce satin finish on paper, treating surface with French chalk; see that boxes attached to machine are filled with chalk; regulates power-drive of machine by means of levers or switches, and sees that it is working properly; (ii) hand process, for small quantities, applies French chalk to paper, and rubs it with brushes or with a cloth, by hand.

grinder, lithographic plate or stone; "grains" or slightly roughens surface of lithographic plate or stone for production of half-tone work; uses a sand or machine driven wheel and sand; or works all over surface of stone with a mechanically-driven revolving disc attached to flexible rod and manually hanging from ceiling.

grinder, lithographic plate or stone; (i) grinds stone level with revolving wheel of glass, or removes old work by grinding or planing away a certain thickness depending upon length of time work has been kept on stone; (ii) grinds zinc plates, usually by placing them with a number of pebbles or marbles in a tray, which is shaken from side to side by machinery; usually acts also as lithographic plate or stone cleaner *q.v.*

guillotine hand (wallpaper); cuts paper mainly for pattern books, using ordinary paper guillotine.

impression taker (roller engraving); takes off trial impressions on cloth of finished engraved rollers on an impressing (or small printing) machine with coloured pastes, gets colour paste into doctor or waste box of machine, allows paste to run on to roller and removes superfluous paste by running roller to revolve against doctor knife; places cloth by hand on bed plate and by means of lever, controls counter, does not touch under revolving roller, removes cloth for examination when impression has been made.

leveler; levels copper plate by hammering on lithographic press.
 map examiner, model; examines model map globes representing the earth, to ensure that the map sections are correctly pasted on.

map maker, dissected (lithographer's); a map mounter *q.v.*, who cuts maps into sections, mounts sections on linen or other fabric, or on strong paper, to facilitate folding, and makes them up into book form.

map maker, model; attaches printed sections of map to globe to form demonstration model of the earth, etc.
 marbler (bookbinder's), book-edge marbler; works at a trough filled with size; mixes colours and throws them into trough, where they remain on surface of size; draws comb-like instrument over the colours to make design required; dips edge of book into mixture; washes off surplus size from edges and allows book to dry.

marbler (paper staining), paper marbler; paints paper by hand to imitate surface of marble.

mounter, chart, see mounter, map.

mounter, dry; lot mounter; mounts maps, showing cards, etc., on mounts by placing very thin sheets of gelatine between map, etc., and mount, and then applying heat by rubbing with a heated iron or by placing in a heated press.

mounter, hot; (i) attaches letterpress forms to iron slab (which takes place of "chase") with adhesive paste, in preparation of galley sheets, in printing machine; (ii) see mounter, dry.

mounter, map; chart mounter; glues or pastes printed map on to linen or cardboard.

mounter, plan, *see* for mounter, map.
 mounter (printer's); (i) see mounter (stereotyping, electrotyping and process engraving); (ii) see mounter, print.

mounter, print (lithographer's); mounter (printer's); fixes printed sheets on stiff card with adhesive liquid or in a press by application of heat, see mounter, dry.

mounter (stereotyping, electrotyping and process engraving); block maker, mounter (printer's); affixes blocks, electro or process plates to slabs of wood or metal with nuts or spurs, catches, taking care to make plate and mount together standard type high; sometimes also cuts metal to required size with circular saw; roasts out portions of plate to be left white in finished block, with ruling machine, *i.e.* revolving cutter on a power-driven spindle, and bevels edges of plate with rotary beveler; sometimes specifically designated, *e.g.*, process mounter, half-tone process mounter.

mounter, three colour process, a mounter (stereotyping, electrotyping and process engraving) *q.v.*, who mounts plates, prepared by three-colour process.

news hand; general term for any printer's craftsman engaged upon newspaper work, including compositor (520), printing machine minder (529), machine assistant (539) *q.v.*; term is used mainly to differentiate workers engaged on newspaper work from those on ordinary letterpress printing, where both kinds of printing are carried on.

nittler (stereotyping); reduces thickness of metal plates by means of nittling or planing machine.

panel maker (paper staining); places sheets of paper pulp in large hydraulic press in manufacture of very thick metal coverings in solid relief, *e.g.*, hieroglyphs, anaglyphic and similar decorations; removes them after being pressed, and generally looks after press, drawing, etc.

paper stainer; general term for workers engaged in colouring paper by hand or machine.

picker, see shiner-up.

photography carbon printer; *aqueous* a carbon print from a reversed positive on to a copper plate or cylinder, and immerses it in hot water, thereby dissolving away gelatine unaffected by light; cf. carbon printer (327).
 photo-type printer; *see* light printer, engineer's photo printer; reproduces, by photo-type process on zincotype printing paper, tracings of engineer's drawings or architectural plans; places tracing over sensitized paper in printing frame and exposes to act light; removes paper, develops and washes in porcelain dishes or sinks, and finally dries it in drying chamber or in heated press.

pickar; corrector, inserts corrections in type on metal stereotype plates, and repairs broken letters, with pointed tool.

pocket book maker; fixes diary or writing paper sheets in cases or covers and finishes paper binding.
 polisher, lithographic plate or stone; smooths lithographic stone after it has been ground, by moistening it and rubbing another stone upon it.
 polisher, tin plate (lithographer's); polishes sheets of tin, after printing, with pumice powder, by hand, or machine.

post card colourist; paints post-cards by hand, or colours drawings or photographs.

post card glasser; feeds cards into machine which applies coating of varnish or gelatine; or may apply glass by hand brush or squeegee.

post card maker; cuts up printed cardboard sheets into postcards by means of rotary cutting machine.

poster writer, or for show card writer; or may be a lithographic printer (536).

preparer, lithographic plate or stone; general term covering lithographic plate or stone grinder, polisher, grainer or cleaner g.c.

pressman (lithography); *proof*, *prover*; pulls or prints in from stone from lithographic stones or plates preliminary proofs as work advances; cf. transfer printer (538) and printer's pressman.

pressman, printer's pressman; proof puller, proof prover; inks by hand with roller, a forme, stone, sheet, electro, or process block, and, by means of hand press, obtains proof from block, forme, stone, etc.

process artist; (i) prepares photographs, drawings, etc., for photo process reproductions; increases contrast in light and shadow for half-tone work by touching up with white and black paint; amends backgrounds by patching photographs, etc.; makes line drawings for newspaper reproduction by taking over outlines of photograph, the background of which is subsequently bleached out; designs surrounds for illustrations; (ii) puts light and shadow drawings of machines, and otherwise retouches them, with brush or aerograph pencil, to make them suitable for reproduction.

proof (lithographer's), *see* pressman (lithography).

proof passer (lithographer's); examines lithographic proofs before printing.

proof puller, proof prover, *see* pressman, printer's.

prover (lithographer's), *see* pressman (lithography).

tracer (lithographer's); takes work from lithographic machine to racks for drying.

reader, printer's reader, proof reader; printer's reader, proof reader; reads proof pulled from type and corrects all errors in composition, grammar, punctuation, etc.; is usually assisted by copyholder g.c.

reader, manuscript, *see* copyholder.

reader, press, *see* corrector of the press.

reader's assistant, reader's boy, reading boy (printer's), *see* copyholder.

reviser, machine; a reader g.c. who finally revises printed sheets before machine is set in motion.

reviser, press, *see* corrector of the press.

reviser, printer's, *see* reader.

roller, proof, *see* reader.
 roller, hot (printer's); manipulates hot rolling machine, which, by means of hot rollers, dries, presses, and colours sheets received direct from printing machine.

roller-up (lithographer's); inks stone by passing a roller, covered with lithographic ink, over it.

router; routs or gouges out portions of stereos, electro, or process plates by revolving cutter on a power-driven spindle; cf. moulder.

skinner-up (lithographer's); *patcher*, *arranger*; colour transfers before transferring them to stone.

show card designer; draws out a design of lay-out for a show card, either roughly in pencil to be worked up by show card writer or in more detail with ink and colours for actual use or for reproduction by lithographic or other printing process.

show card maker; cuts out show cards from cardboard, by hand, or by machine; gouges out or rotary cutting machine mounts printed matter on card, *see* show card moulder.

show card mounter; a moulder g.c. fixing printed sheets on to show cards.

show card writer; paints prices and descriptions of goods, by hand, on show cards for window or shop display.

stencil (tin tickets); coats ticket, by spraying with a ground of white or other paint and stores to harden on paint; places store over ground of white; sprays coloured paint over it and stores again; finally applies coat of varnish, by spraying, and again stores.

stone tinter (lithographer's); prepares lithographic stones for map printing, i.e., colour on either with chalk or penicillin variation in tint as required, e.g., deeper tint round boundaries of specified areas, countries, etc.

stripper (process engraving); *turner*; treats film of several negative plates with rubber solution, and then strips film from glass with methylated spirit; places these films face downwards on one large sheet of glass, so effecting subsequent economy in photo process; sometimes done by metal printer (536) g.c.

teller, *see* counter.

ticket maker; (i) cuts out ticket blanks from cardboard with a guillotine or rotary cutting machine; (ii) prints or writes, on small strips of cardboard, previously cut in a cutting machine, prices and descriptions of goods, for window display; may also write show cards, *see* show card writer.

ticket varnisher; varnishes tickets with a brush by hand and sets aside to dry, or more usually feeds them into varnishing machine, which applies a coat of varnish and then carries them through drying chambers.

ticket writer; as for show card writer, but work usually of simpler character.

tin ticket writer; writes on tin tickets by applying coloured paint with a brush; ticket is afterwards stored to be hardened.

turner to scale operator (blue prints); a phototype printer g.c. who prints from engineer's or architect's tracing on to specially sensitized paper by means of exposure to act light and transfers imprint to gelatine surface on a slab, takes copies from the plate, by laying a sheet of paper on gelatine and pressing the two into even contact.

turner (process engraving), *see* stripper.

varnisher (lithographer's, paper staining), *paper* varnisher; (i) hand pressing, paints cards or paper with varnish, with a brush, and sets cards aside to dry; (ii) varnishing machine

varnisher; machine process, instructs labourers as to filling varnish ducts, or troughs, in machine; regulates power which drives machine; passes cards or paper into machine; watches varnishing process to detect flaws; piles up varnished cards as they come from drying end of machine, or, if reels of paper are being varnished, watches re-rolling machine for breaks, creasing, etc.

varnishing machine moulder, *see* varnisher (lithographer's, paper staining).

window ticket maker; a ticket maker g.c. who cuts out window tickets.

window ticket writer, *see* for show card writer.

549—OTHER WORKERS.

assistant back tender (paper staining); usually a boy who assists back tender (paper staining) or machine printer (paper staining) (536) g.c.

back tender (paper staining); machine hand; stands at back, i.e., delivery end, of wallpaper printing machine; fills colour boxes with distemper paint from a can; helps machine printer (wallpaper) (539) g.c. to lift rolls of paper on to and off machine; assists machine printer (wallpaper) generally.

bench hand (printer's); distributes printed sheets to workers for folding, perforating, etc., and collects work when finished; assists women staff in heavy manual work, e.g., lifting heavy packages; may also count or check numbers of sheets or forms, pack and label parcels for despatch; cf. bench hand (535).

black leader; pastes or inserts carbon paper sheets in manifold books.

carrier, roller (paper staining), *see* washer (paper staining).

carrier-away (printer's), *see* machine labourer.

carrier-out (paper staining); a labourer who carries rolls of paper, etc. in various sections of wallpaper factory.

checker (paper staining); keeps account of rees of paper used, and of pieces of wallpaper produced.

checker, bank note; a checker (printer's) g.c. who checks the numbers of bank notes.

checker (printer's); overlooks work of numberer (bookbinder's) g.c. to ensure that no blanks are left.

cleaner, printer's, *see* machine labourer.

cleaner-out (bookbinder's); brushes off, from case, surplus gold not impressed by stamp in gold blocking.

clearer, *see* type distributor.

collator (bookbinder's, printer's); checks work of gatherers g.c. and sees that pages, illustrations, etc., are in correct order.

colour mixer's labourer, colour shop labourer (wall paper); fills mixing vats and does odd jobs in colour shop.

compositor's labourer; carries frames and type from one department to another, and acts as messenger for composing room.

cordar, *see* stringer.

damping boy (lithographer's); assists at lithographic press.

devil, printer's devil, *see* printer's boy.

dusting boy (lithographer's); removes, by hand, surplus bronze from parts of sheet which have not been used.

tayelet machinist; places sheet of paper or card on plate of power-driven revolving machine, and operates foot lever which causes plunger to be brought into contact with paper or card and automatically punch hole and fix metal eyelet thereon.

folder, book folder (printer's); paper folder, folding boy; (i) folds sheets of paper, into page size by hand, and fits one edge to prevent bulging; for more exact handwork in best class machines; (ii) *see* folder (bookbinder's) (545); (iii) *see* folding machine feeder.

folder, music; a folder (printer's) *q.v.* specially skilled in folding music.

folder, paper, *see* folder (printer's).

folding boy (printer's), *see* folder (printer's).

folding machine feeder, folding machine operator; book folder, folder (printer's), folding boy, paper folder; feeds printed sheets into folding machine so that edges are in contact with guides at front and side, or so that small bells perforate the sheet at time of printing are placed over steel points on feeding board of folding machine; starts and stops machine; removes stack of folded sheets from hopper.

folding machine minder; adjusts and supervises working of folding machines.

gatherer; arranges folded sections of pamphlet or book in order, usually by "signatures," or marks at foot of page, so that pages run consecutively.

gummar (bookbinder's); applies gum to back of books, by machine or brush; also gums edge of illustration pages etc. for insertion in books.

gummar (lithographer's); applies gum acid, to etch stone, after design has been transferred, using a broad flat-backed brush.

gummar, paper; printer's gummar; (i) lays down to be gummed side by side, and gums them by hand; (ii) feeds machine with paper to be gummed or takes it off as it comes out at other end.

hat tip slicer; prints hat tip with size before gold leaf or bronze dust is applied by hat tip printer (537) *q.v.*, *cf.* bronze letter printer (538).

knocker-up (printer's); evens up pile of printed sheets, before cutting them in guillotine cutter, by knocking side and ends on table or other flat surface; usually done by guillotine cutter (545) *q.v.*, himself.

linoquering machine feeder (lithographer's); feeds tin plates into linoquering machine, which applies varnish to them by means of rollers.

linotype assistant, boy, labourer, man; assists linotype operator (523) *q.v.* by carrying away type when completed, melting up used type metal, etc.

machine band (paper staining); *see* back tester.

machine labourer (printer's); carrier-boy, printer's elevator; sweeps up machine room; fetches supplies of paper; carries away paper from machine, etc.

numberer, bank note; a numberer *q.v.* specially skilled in numbering bank notes.

numberer (bookbinder's, printer's); numbering machinist, paper, roller paper; numbers pages in book, tickets, cheques, etc.; operates by means of hand or treadle machine which automatically changes number after each impression; places paper so that number comes in right position, takes care that numbers run consecutively and adjusts it when additional figure becomes necessary.

numberer, cheque; a numberer *q.v.* specially skilled in numbering cheques.

numberer (paper staining); works small hand stamp which applies identification mark to back of roll or piece.

numbering machinist (bookbinder's), *see* numberer (bookbinder's, printer's).

ollar (paper staining); greases machines, and attends to their smooth running generally.

oller (printing); a printer's labourer *q.v.* who oils the rollers and rotary machines in newspaper office; sometimes done by brake hand (530) *q.v.*

paper, roller paper; *see* numberer (bookbinder's, printer's).

paperer (bookbinder's); fixes, by gluing at front and end of book, strong paper, called "end-paper" or "waste paper," by which book is afterwards bound to its covers; sometimes also acts as forwarder (532) *q.v.*

paper flattener (printer's), *see* presser, hot.

pastor (bookbinder's); fastens, by hand with paste, edges of end-papers in front and back of book, and does other pasting work required in book-binding.

perforator (bookbinder's, printer's); feeds sheets into perforating machine, which perforates paper by means of revolving toothed wheel.

plier (paper staining); (i) stacks rolls of wall paper when finished, (ii) *see* plater-down.

plater (bookbinder's), map and plate plater, plater; pastes maps and plates in books.

plater-down (paper staining); *plater*; receives paper at taking off end of wallpaper printing machine, and folds or plaits it in a file preparatory to rolling it.

pointer; a folding machine feeder *q.v.* *see* chain register "by laying about so that holes pierced in it by press points in printing machine fall exactly on points in folding machine." *cf.* pointer (533).

presser (bookbinder's); feeds with book and, by means of hand lever, operates hydraulic press which presses out sponginess from books after folding and sewing, removes books after pressing.

presser, hot; pressing man; paper flattener (printer's); places thick hot iron plates at intervals between printed sheets, and lays between glazed boards in screw or hydraulic press, thereby removing indistinctness caused by type in printing and giving paper a perfectly smooth surface; *cf.* hot presser (538).

pressman's labourer; fetches and carries for pressman (543) *q.v.*

printer's boy; devil, printer's devil, printer's lad, shop boy; does any odd jobs in or about printing office; sweeps rooms, runs errands, and acts as general shop boy.

printer's labourer; does various odd jobs of an unskilled character in or about printing office.

printer's lad, *see* printer's boy.

puller to pieces (bookbinder's); breaks up books into sections preparatory to re-binding.

reeler (paper coating machine); attends to reeling of coated paper, when dry, from festoon-carrying roller to paper coating machine; sets empty spindle in reeling machine and removes it when full, controls reeling machine by means of levers; keeps laps on festoons straight, between coating and reeling machines; carries away rods from reeling end to coating machine end of drying span between machines.

reeler (paper staining); attends to lines or festoons of paper at back of printing, grounding, or varnishing machines, and to reeling of paper.

roller changer; changes copper rollers of wall paper printing machine.

roller, ticket; feeds machine which winds strip tickets, after they have been printed and perforated, into thick rolls ready for use.

roller-up (paper staining); attends to reeling machine, which winds paper from reels on to rapidly revolving steel rod; stops machine, when a mark appears in margin, and cuts off paper.

sawer, book (printer's); saws backs of books, cuts by hand, or by machine, after cutting holes along back with small saw.

shepboy, *see* printer's boy.

sorter, wallpaper; to discover defects.

stitcher (printer's), wire stitcher; fastens backs of pamphlets by means of wire stitching machine, which passes wire through sheets and presses ends flat.

stone shifter (lithography); lifts lithographic stones in and out of presses or machines.

stringer (printer's); *ceder*; runs string through showcards after lettering.

tire boy (paper staining); hangs paper in long festoons from drying rods after it has been printed by block printer (533) *q.v.*; lifts rod on to rails with a long-handled T shaped implement; sometimes also spreads colours on "sieve" for block printer.

type distributor; *ceder*; returns type to case, from which it came, after printing has been done; usually done by compositor (522) *q.v.*

varnishing machine feeder (lithographer's, printer's); passes printed sheets into varnishing machine.

washer, blue; washes blue printing immediately after printing in long tanks containing running water.

washer, glass (process engraving); washes off film from used photographic negatives with nitric acid, or cleans new glass in same way; rinses with water and leaves to dry, glass then being ready for coating, or recoating, with sensitive solution.

washer (paper staining), roller washer; roller carrier; washes rollers from printing machine, or blocks used by block printer, in water and chemicals, after printing has been done, using brushes, etc.

washer-up (bookbinder's); (i) as far washer (paper staining); (ii) cleans soiled parts of books before finishing process begins, washing off stains, removing superfluous glue, erasing fingermarks, etc.

winder, winder-up (paper staining); re-coils finished wallpaper into small rolls of suitable length for sale.

wire stitcher (bookbinder's), or for stitcher (printer's).

Sub-Order 3.—Makers of Stationery, Cardboard boxes and other works in paper.

551.—FOREMEN, OVERLOOKERS AND FORM SETTERS.

form maker, form setter (cardboard boxes); machine setter; sets up metal rules for cutting out and creating folding boxes; superintends the running of the machines, which are operated by folding box stamper (553) *q.v.*

jobber (paper tubes), *see* paper tube jobber.

machine setter, *see* form maker.

paper tube jobber, paper tube machine setter, paper tube machine tackler; jobber, paper tube overlooker, tackler; superintends running of machine for making paper tubes and keeps them in good order.

paper tube overlooker, *see* paper tube jobber.

tackler, machine tackler; sets, adjusts and keeps in running order, paper bag making machines, superintends all operations performed by these machines.

tackler (paper tubes), *see* paper tube jobber.

552.—PRESSERS, STAMPERS, SCORERS AND PUNCHES.

cap maker (cardboard boxes); presses out caps for round cardboard boxes and tubes by power machine.

creator, *see* scorer.

cuttar, cuttar-out (paper flowers); stamper; lays several sheets of paper under press; places metal stamp or die of required outline on paper; combs press by means of lever so that metal stamp is pressed through paper, so cutting out paper shape (petal, leaf, etc.). moves stamp and repeats process; sometimes specifically designated, *e.g.* flower cuttar, cuttar-out, artificial flower cuttar, cuttar-out, disc cutter, paper; cuts dies for round cardboard boxes by power or hand machine.

embosser, card; a paper embosser *q.v.* who moulds borders of cards by hand machine or power press.

embosser (envelope and stationery), *see* stamper.

embosser, paper; *embossing feeder;* (1) attends to embossing machine, which, by pressure between intaglio and relief rollers, leaves impression on paper, e.g., resembling grain on leather; (2) operates a hand machine, or power press to give an embossed and perforated effect to edges of paper d'écous, etc.

embosser (razor cuts); operates heated press by hand to emboss raised device on sides of case.

embosser (wallpaper); operates embossing machine, which, by pressure between intaglio and relief rollers, leaves impression on paper. In this relief, embossing is done by plates, which are inserted into machine, and colour is applied afterwards, by hand; in low relief, rollers are used after paper has been printed; cf. *stomina printer* (paper staining) (558).

embossing feeder; (1) see *embosser, paper*, (2) see *stamper*.

laced paper maker, lacor; (1) stamps out lace or fancy paper articles by hand, machine or power press; (2) feeds and operates roller d'écous machine, which cuts machine and perforates paper lace, such as is used for trilling chocolate boxes; finished work is removed by female assistant.

machine hand (paper patterns); see *stamper, dress pattern*.

machine minder (music rolls); see *perforating machine minder*.

machine operator (music rolls); see *perforating machine minder*.

perforating machine minder (music rolls); machine minder, machine operator; fixes stencil (cut by stencil cutter q.v.), which determines pattern of perforations in perforating machine, attends to machine while it is working and sees that perforated copies reproduce original correctly.

perforator, card; pattern card perforator, stamp perforator; as for *perforator* (549).

plunger, machines operator; feeds, with blank, "plunger" machine which makes cardboard box in one operation.

presser; places labelled or paper-covered cards in hydraulic press, to press out bubbles or creases caused by pasting operations; sets press in motion with a treadle or with a hand lever.

puncher, see die cutter.

puncher, card; a paper puncher q.v. who punches out cards.

puncher, label; places knife or cutter, having shape of label to be cut, in position on pile of paper or cards and operates press, which is then brought down upon them by machinery.

puncher, paper; (1) cuts out, with loose cutters, shaped labels or envelopes in flat sheet; (2) lays paper in set position in bed punching machine, and sets machine in motion with foot lever.

scorer; creaser; (1) marks sheets by pressing against register points on bench, so that they can be accurately fed into folding machine; (2) places cards in scoring or creasing machine which scores or creases card in readiness for folding; controls machine by rollers; removes scored cards and stacks ready for folding.

stamper; embosser, embossing feeder, stamps paper, envelopes, etc., with monograms, letters, designs, or crests, either in cameo (in white or coloured ground), in relief (in colour on white ground), or by the stamping; in all cases die is fixed in machine, and, if article is to be stamped in colours, colours are applied to die, which is then placed under die, which is pressed down upon it, by machine; sometimes also, in colours, using oil or vehicle, usually specifically designated, e.g. cameo stamper, full heading relief stamper, heraldic stamper, monogram stamper, relief stamper.

stamper, dress pattern; machine hand (paper pattern maker), sets knives, shaped according to pattern supplied by dress pattern maker (558) q.v., on top

of a pile of sheets of paper, puts knives and paper under hydraulic press, which presses knives through paper and cuts out patterns.

stamper, fancy box; folding box stamper; lays sheets of cardboard on plates of stamping machine; controls machine by lever so that flags and blades into which they fit, are stamped out; knives are usually set by mechanic (245) q.v.

stamper, machine (paper staining); an embosser (wallpaper) (552) q.v. who applies plate having pattern intaglio, to paper as it runs on another plate, having pattern in relief.

stamper (paper flowers); see *cutter* (paper flowers); sometimes specifically designated, e.g. flower stamper, artificial flower stamper.

stamper, pattern card; a stamper q.v. who stamps out pattern cards.

stencil cutter (music rolls); performs stencil paper, at places marked by music arranger, with a hammer and punch.

553—ENVELOPE AND PAPER BAG MAKERS.

bag hand, see paper bag maker.

black bag maker; (1) makes black bags taking form of block when opened, by hand, using a metal folder; arranges edges to overlap, and applies gum or paste with brush; (2) fixes reel of paper on power machine; regulates power which drives machine; sees that paste boxes on machine are kept supplied with paste; machine completes bags automatically.

envelope folder; folds envelopes, by hand, using a flat bone instrument, frequently also gums envelopes together.

envelope machine folder, envelope machine hand; (1) maintains supply of blanks of envelopes in rack of folding machine, from which they are automatically drawn into the machine and are folded and gummed, (2) extracts finished envelopes from dryer, fixes in hands in order to correct warping and stacks.

envelope maker; general term for any worker engaged in making envelopes, including cutter (555), envelope folder and gummer q.v.

gummer, envelope gummer; an envelope folder q.v. who gums edges by hand and makes special envelopes.

needle envelope maker; folds and gums together, by hand or machine, special envelopes for packing needles.

paper bag feeder; feeds out sheets into folding and pasting machines.

paper bag maker; bag hand; (1) makes bags by hand from previously cut sheets of paper by means of a metal folder, or, in the case of flat bags, by folding seam without metal folder; arranges edges to overlap and applies gum with brush; (2) attends to machines which produce bags from reels of sheets of paper; feeds sheets of paper into machine or fits reel of paper on spindle; watches machine for smooth working and examines finished product periodically; machine is usually set by mechanic (245).

seal packet maker, as for envelope maker.

554—CARDBOARD BOX MAKERS.

barrel maker; makes cylindrical barrels and lids of cardboard by attaching sheets of cardboard to circular wooden ends with glue and tacks or rivets.

box hand, box maker (fixture boxes); coverer; turns up, to form box side, pieces of cardboard already cut to shape and creased; pastes on thin fabric or paper strips to secure corners; cuts up paper or cloth for lining and covering, pastes it and runs down firmly; cuts felt or baste and glues along bottom of fixture boxes, cf. *box maker* (479) and (658).

box maker, cardboard box maker; general term for all workers engaged in making cardboard boxes by hand or by machine, or partly by hand and partly by machine, operations differ according to type of box made and methods and machines employed; includes scorer (552), stamper (552), carton maker, killer maker, cutter (558), finisher (558), layer-on (554), slider (554), box and slide machine attendant; attends automatic machine which cuts and folds cardboard and paper, and pastes together to make sliding boxes, e.g., cartons for cartons, plus baggage tied with material by hand; removes boxes as made.

carton maker, as for box maker.

container maker (electric lamps); a box maker q.v. who makes cartons for packing electric lamps for despatch.

coverer (fixture boxes); see *box hand* (fixture boxes); cf. *coverer* (559).

flange box maker; receives box made by box maker q.v. and glues round edges of top and sometimes of bottom, or pastes it into gluing machine, lays a piece of cardboard on glued surface so that it projects as a flange beyond edge all round and presses it firmly; passes to coverer (559).

skillet maker; a cardboard box maker q.v. who makes skillets or cardboard boxes with plain ends which are to be covered with printed wrappers.

strawboard box maker; a box maker q.v. who makes boxes of strawboard, a kind of coarse thick cardboard.

555—OTHER SKILLED WORKERS.

borderer, black borderer, envelope black borderer; arranges envelopes or note paper, using small bone instrument, so that only border is exposed, applies black varnish with brush.

Braille writer; encrier; sets out plates of Braille type in an embossing machine and feeds sheets of paper, to be embossed, into machine, switches on and off power-drive of machine and removes finished sheets.

bust maker; tailor's dummy maker; cuts up strawboard into small pieces and mixes it with floor paste to required consistency; spreads this evenly over iron or aluminum model or mould by hand and with small hand scoop; sets to dry and then cuts sections away from mould; pastes sections together to form complete bust or dummy; may also paint or varnish last; sometimes specifically designated, e.g. coat bust maker, dressmaker's bust maker, tailor's bust maker.

card ornament maker; cuts out fancy paper covers or shades for candles, with a punch.

carbon paper coater, carbon paper machine minder; typewriter carbon maker; fixes coils of paper to spindles of one or more machines which, by a system of rollers, coat paper with dope, i.e., a special ink compound; guides end of paper over or between various rollers to re-reeling end of machine; fills dops, or troughs, with dope from a can; regulates steam-heating of rollers by turning tape or valves; controls power-drive of machine; supervises coating process; watches re-reeling end of machine to note breaking or creasing of paper; if such occurs, stops machine and repairs or adjusts paper, by hand; removes reel of coated paper from re-reeling end of machine.

card beveller, card finisher; (1) hand bevelling or finishing; arranges a pile of cards so that edge of pile slopes at required level angle; places pile in nipping press and presses shaped edge with sharp knife; finishes with sand paper and, if required, applies gold leaf, afterwards burnishing with agate stone; (2) machine bevelling; places pile of cards in press of

machine and manipulates seven on machine which causes rotary knives to cut beads on cards; applies gold leaf, if required, and furnishes by hand.

card maker; passes card sheets into a roller machine which passes separate sheets together.

carton paper worker; undertakes all processes of manufacture of carton paper; mixes materials used, e.g., paper, pulp, china clay, glue and whitening; works materials into mould by hand; dries it by artificial heat.

checker; see counter.

cloth slitter (typewriter ribbons); see cutter, cloth (typewriter ribbons).

coater (typewriter stencil paper); see waxer (typewriter stencil paper).

compaction maker, **compendium maker** (stationery); assembles strawboard, tape, paper, etc., already cut to size and appropriately scored for binding; makes case by hand, pasting covers over strawboard and pasting paper sections to contain envelopes; gives pad of paper to case; inserts envelopes, etc., and finishes off.

cornstar; see cutter, corner.

counter; checker; checks numbers of stamped revenue envelopes, etc., in packets.

cutter; **cutter-man**, **cutter-out**, **cutter-up**; see gauges according to size required; places paper, pasteboard, card, etc., on table of rotary cutting machine, or guillotine; controls descent of knife or knives by means of lever; sometimes further designated by the article cut out, the material used, or by machine operated, e.g., slipper cutter, box cutter, envelope cutter, index paper label cutter, etc.; or card cutter, note-paper cutter, paper cutter, etc.; or guillotine cutter, machine cutter, rotary cutter, shears cutter, etc.

cutter, cloth (typewriter ribbons); **cloth slitter**, ribbon cutter; places, with assistance of labourers, roll of cloth on spindle of machine; adjusts cutters of machine according to width of ribbons required, using measuring gauges; guides end of cloth between rollers of machine; switches on power-drive of machine, causing cutters to slit cloth in continuous ribbons; removes spools of ribbon from spindles at re-reeling and of machine; in some cases, also seals edges of ribbon on spools by spring composition on them, with a hand-operated aerograph machine, to prevent fraying.

cutter, corner; **cornerer**, **slitter**; places cardboard under cutters of power machine and controls cutting carried by means of lever; may cut out corners with hand machine by pulling down cutting knife with hand lever; stacks cut cards.

cutter, mount; picture mount cutter; cuts mounts from boards of standard size and takes aperture of necessary size, using bevelled hand knife or mount-cutting machine.

cutter (paper collars, cuffs or fronts); places a small pile of stiff prepared white paper on bed of power-driven cutting press; places cutter in position in upper part of press, and switches on power, which causes cutter to descend and cut paper to required shape; if cutting out articles with imitation stitching or other impressions, passes paper into machine can sheet at a time.

cutter, ribbon; see cutter, cloth.

cutter-down (typewriter ribbons); cuts typewriter ribbons, after they have been coated with ink, into lengths, by feeding into cutting machine; sometimes also winds them on spools, when not done automatically by cutting machine.

cutterman; see cutter.

cutter-out, **cutter-up**; see cutter.

cutter and creaser, **cutter and scorer** (cardboard boxes); builds up and fits into cutting and creasing machine shaped knives or cutters; usually done by mechanic (245) g.v.; may also do work of layer-on g.v.

dampener, **dipper**, see waxer.

drawing monitor; mounts drawings, photographs, prints, etc., on cardboard, by hand, using mountant or paste.

dress pattern maker; paper pattern modeller, pattern modeller (paper pattern); cuts out, by hand, paper dress patterns from which knives are made to be used by dress pattern stamper (552) g.v.

edger; affixes paper edging, by machine or hand brush, to ribbons cut from cloth, for use in typewriters.

embosser to the blind; see Brasile

envelope designer; prepares designs for envelopes to size and shape required by customers, from which cutting knife used by paper puncher (552) g.v. is made.

examiner (carbon paper); inspects sheets of carbon paper before they are packed, to detect defects; in some cases, examines paper, when it is unwound from reel to be cut, and performs cutting.

examiner (music rolls); examines perforated sheets, compares them with original and marks incorrect notations.

fine can riveter, **fine can stitcher**; rivets together, by machine, edges of long strip of vulcanised fibre to form silver can.

fine can turn-over; softens end of silver can, made of vulcanised fibre, with a heated iron; puts steel or wooden ring over top of can, to stretch top, and turns back softened fibre in cover ring; often also rivets turned over top of can in a power-riveting machine, or passes can to fine can-riveter g.v. to be riveted.

fine worker; (i) general term for an person engaged in manufacture of part manufacture of articles made of vulcanised fibre, i.e., cheaply produced compressed paper, including drillers, sawyer, turner, riveter, or assembler, puncher, etc. (ii) makes articles of vulcanised fibre through-out; in either case, processes and machinery used similar to woodworkers (451, 456, 458, 459) g.v.

finisher (music rolls); combines work of fixer and of fronter (559) g.v.; also marks sheet with lines indicating variations in time, in volume of tone, etc.

finisher (paper collars, cuffs or fronts); puts collars, cuffs, or fronts, after they have been cut out by cutter (paper collars, cuffs or fronts) g.v., under a power-driven or treadle-driven punch, which makes button-holes or stud-holes therein; for collars, also folds collars, by hand, following lines already impressed on articles by cutter; for fronts, also creases front, by hand, down machine to form a pleat, and places neck band, with small piece of linen to top edge of front.

finisher (perchment containers); passes container, which has been rolled and coated by roller girl (559) g.v., into finishing machine; machine turns over edges at top and bottom, makes groove into which cover fits and presses bottom in place; controls machine, which is set by mechanic (245) g.v., by means of levers; takes sheets from containers of machine and stacks them.

fireplace ornament maker; makes decorative screens for fireplaces by folding and gumming together pieces of fancy paper and cardboard.

fixer (music rolls); rectifies mistakes in perforated music sheets pointed out by examiner (g.v.) by enlarging perforated slits (if too short) with scissors or patching them (if too long) with paper and glue.

fong maker; makes fong used as matrix in stereotyping by pasting together layers of blotting paper and tissue paper with a special paste called stereo composition.

label maker, **tag maker**; general term covering any worker engaged in the manufacture of labels, including label cutter, label puncher (552), and eyelet machinist (550) g.v.

lamp shade maker; makes paper lamp shades, largely by hand, from thin cardboard or fancy paper, on a wire frame.

layer-on (cardboard boxes); places sheets of cardboard on platen of cutting and creasing machine; controls by means of lever, revolving knives which cut and crease sheet to required size and shape; removes cut sheet and stacks it; work sometimes done by cutter and creaser (552) g.v.

manifold paper maker; soaks Japanese paper in oil and interweaves it with tissue paper; places whole in press and thus saturates tissue paper with oil.

metal edger; folds sides of box and places it on a right-angled awl; controls levers of power-driven machine which binds edges with toothed strip of metal; usually also sets gauge which controls length of metal edging to be cut off.

mounter, see waxer.

mount binder; see passe partout binder.

mount maker; pastes white paper centres on cardboard and decorates edges by lines or stamping.

music roll maker; perforates paper rolls for pianolas, player pianos, etc., by machine.

note-paper folder; folds sheets of note-paper by hand or by machine.

paper blind maker; makes paper blinds, by beaming edges of paper, received from paper mills cut to size, and machining lace on lower edge.

paper collar maker, **paper cuff maker**, **paper front maker**; general terms covering cutter (paper collars, cuffs or fronts) and finisher (paper collars, cuffs or fronts) g.v.

paper pattern modeller, see dress pattern maker.

paper maché boilerman; feeds old or scrap paper, previously disintegrated, into stationary or rotary boiler, where paper is boiled to a pulp.

paper maché dryer; places moulded paper maché articles on shelves in heated room to dry.

paper maché hand (theatrical properties); builds up hand round base of model received from theatrical property moulder and completely encloses it; usually grases model and for hand to be removed, removal of mould; pours liquid plaster of Paris into space between hand and model; when set removes mould, grases inside and pours into paper maché or lines inside with paper maché; leaves paste to dry and turns or pulls out when cast or shell is hard enough; sometimes done by theatrical property maker (588) g.v.

paper maché liner; **paper maché moulder**; (i) forces wet paper maché, by hand, into plaster mould made by mould maker (118) g.v.; (ii) (in manufacture of large quantities), operates hydraulic press to press paper maché into a metal mould; sometimes also places moulded articles in heated room to dry.

paper maché mixer; mixes pulp with turpentine, whitening, resin, china clay, and glue or starch paste, in mixing and grinding machine.

paper maché moulder, see paper maché moulder.

paper maché worker; general term for workers engaged in working paper maché, including paper maché boilerman, mixer, liner, moulder.

passe partout binder, **passe partout maker**; mount binder, assembles glass picture, mount and back board, and binds edges with gummed paper; affixes rings to back with adhesive paper or with metal tag.

pattern card beveller; a card beveller g.v. who bevells pattern cards.

pattern case maker; makes case for holding patterns of fabrics, etc., by pasting together cardboard, paper, imitation leather, etc.
pattern modeler (paper patterns), see dress pattern maker.
post card examiner; inspects completed post cards for faulty coloring, printing, etc.

sheet paster; pastes sheets of paper together to form visiting, correspondence, playing cards, mounting boards, railway tickets, etc., either by hand or, much more generally, by machine.

slitter (cardboard boxes); places roll of paper on spindle in slitting machine and passes end of paper through rollers of machine and fastens to re-winding spindle; controls by means of levers slitting knives which cut the thin cardboard or paper into narrow strips for binding boxes or for reeling into tubes.

silver can maker (tube); general term covering all persons engaged in making silver cans of compressed fibre, including fibre can cutter, riveter, turner-over, varnisher (559) g.v.

slotter, see cutter, corner.

spooler (mangle rolls); attaches ends of perforated sheets to spool, with glue, by hand; winds sheet round spool by machinery.

spool maker (music rolls); fastens thimble on to end of dowel, i.e., wooden core to cardboard spool with a pin, by machine; turns hole through thimble and dowel, by machine, to receive pin which secures flange to dowel; fixes flange on to thimble and dowel, and inserts flange, complete with thimble and dowel, into cardboard spool.

stamp examiner; examines stamps to detect defects and variations in colour.

stencil paper examiner; examines stencil paper to detect irregular coating or other defects.

stove ornament maker; makes decorative screens for stoves, by folding and gumming together pieces of fancy paper and cardboard.

tag maker, see label maker.

tailor's dummy maker, see hush maker.

transfer slide maker; makes magic lantern slides by pasting printed paper transfer between glass mounts and binding edges with black paper.

typewriting carbon maker, see carbon paper color.

typewriting ribbon inker, **typewriting ribbon machine minder**; places spool of ribbon on spindles of one or more machines; guides end of ribbon between rollers of machine to re-reeling end; switches on and off power-drive of machine; fills ink ducts with ink from a can, removes inked spools from machine.

vulcanised fibre machine minder; fixes, with assistance, reel of special absorbent paper to machine; guides end of paper between rollers; switches on power-drive of machine, causing paper to pass slowly between rollers and through a bath of chloride on to a cylinder, on which it is automatically wound; watches paper during process, to ascertain that necessary coating is being obtained; when desired thickness has accumulated, winds off sheets of material, i.e., vulcanised fibre, with a knife to sizes as instructed.

waxer; dipsper, dipper, moistener; coats boards with wax or soap solution by dipping in molten wax or soap solution, prior to pressing into cardboard boxes by machine press.

waxer (typewriting stencil paper), **stencil paper waxer**; coats (stencil paper); passes sheets of tissue or other paper into a roller machine, which coats them with liquid wax.

winder (typewriter ribbons), **ribbon winder**; winds typewriter ribbon on to spools, by hand or in small power machine; sometimes also cuts it to required lengths.

writing pad maker; assembles strawboard, cover, pad of writing paper and tape; glues top edges of pad to tape and fixes cover and strawboard back by same means.

559—OTHER WORKERS.

adhesive seal maker; feeds embossing and die stamping machine with gummed paper and removes seals as stamped and cut out.

assembler, see fitter.

assistant vulcanised fibre machine minder; assists and works under direction of vulcanised fibre machine minder (558) g.v.
bander (cardboard boxes); places box on block of banding machine and fastens end of gummed paper strip issuing from machine to box, sets machine in motion by means of a lever so that gummed paper is applied all round edge; removes box and passes to turner-in g.v.

bender (cardboard boxes); shapes; passes slow and other boards into power machine, where they are forced into contact with projecting rib or lip on roller, thus making impression in board so that it can be easily bent; sets gauges; stacks boards when bent.

blinder (cardboard boxes); **blinder, blitter-up**; binds, by hand or machine, edges of cardboard box with gummed paper, which holds together and serves to strengthen edges, in machine work, presses part of scored card blank, which will become bottom of box, against stock similarly shaped which revolves slowly; bends over each side against successive sides of stock as they come uppermost and joins sides and strengthens bottom edges by applying strips of paper.

blitter, blitter-up (cardboard box), see blinder.

blocker (cartridges); places cardboard case of sporting cartridge, with metal bottom laid in position, in upper part of machine; turns handle which sets machine in motion and fixes bottom on to case as it spins on sprayer; moves hand lever, bringing rimming wheels into contact with edge of metal bottom, thus fastening it securely on the case.

board combiner, see paster.

board liner (cardboard boxes); **sheet liner**; (i) covers cardboard with plain or ornamental paper by hand, using paste and brush; (ii) passes cardboard into pasting machine by which it is carried over a roller and brought into contact with pasted paper and delivered at back, finished; stacks lined boards to dry.

bobbin band presser; manipulates hydraulic press which presses together several thicknesses of cardboard and strawboard to make flanges for bobbins.

bobbin maker (cardboard); operates a machine which rolls and cuts pasteboard to convenient size and shape for making bobbins, pins and tubes; see also paper tube maker.

bon-bon maker, see cracker hand.

book-felder (stationery); folds sheets of paper, for making into writing books, by hand, using a bone instrument.

bottle cap machines operator, as for bleaker.

bottle seal maker; an adhesives seal maker g.v. who makes seals for bottles.

bottomer (cardboard boxes), **topper and bottomer**; (i) places box on block and pulls gummed paper from machine on to edge of box; sets machine in motion by moving a lever, so that paper is stuck to top and bottom of box and cut off automatically at required place; removes and stacks box to dry; (ii) brushes hot glue on glue board, sticks piece of paper of required size lightly into glue and places glue on size upon bench; places box on glued paper and smooths with fingers.

breaker, see stripper.

calender man (compressed paper); passes vulcanised fibre sheets through calender, to produce a smooth surface.
card labeller; puts gummed labels on cards, show cards, boxes and other articles of cardboard, as labels are received from mangle g.v.

card ribboner; threads ribbon through cards, almanacs, etc.; ties it in ornamental bow.

card trimmer; cuts edges of blocks of cards with a guillotine to get a clean edge after they have been roughly cut out by cutter (558) g.v.

case maker (cartridge rockets), a **paper tube maker g.v.** who makes cartridges or rocket cases.

casemaker (envelope making); (i) gums envelope flaps by arranging a series of envelopes, one on top of another, so that only edges of flaps are showing; brushes over with gum and sticks to dry; (ii) (hand machine operating) places envelopes in press and discharges away each envelope separately; (iii) (power machine operating) feeds machine and supervises running.
casemaker, paper; gums together edges of paper articles.

cigar box decorator; pastes on, by hand or machine, decorative labels or bindings to exterior of wooden cigar boxes.

cigar box liner (paper); affixes with paste, by hand or machine, plain or fancy paper to inside of wooden cigar box.

container tube maker, see paper tube maker.

cop tube maker; a paper tube maker g.v. who makes cop tubes for use in textile trades.

corrugator, corrugated pecking maker; places reel of cardboard or paper on spindles of machine, using a pulley block; guides end of material between rollers of machine; starts machine with a hand lever, and stops it when required; takes off corrugated paper at delivery end.

cosaque maker, see cracker hand.

coverer (cardboard boxes), **paperer** (i) lays paper, cloth or other material, material, which has been glued by gluer g.v., on block and sets machine in motion by moving a lever, thus causing machine to put glued paper on box, fold ends, stick them down, press paper in back and deliver finished box in back; (ii) lays glued paper on box or band; folds ends, sticks them down and presses paper, etc. to box—all by hand.

cracker hand, **cracker maker**; **bon-bon maker**, **casaque maker**; prepares cracker by laying out; inserts for lining and snaps in ends; inserts round tube and gums paper, crimps cracker by hand, i.e., makes wrist at both ends of cracker with string, removing tube during process, guides cracker, or scrap, etc., on to pile of cracker, and packs cracker in boxes.

crinkled paper machine operator; places reel of paper on spindle of machine having two rollers, i.e., matrix and embossing rollers, guides give crinkled effect to paper, guides end of paper between rollers to re-reeling end; regulates power-drive of machine; removes reel of crinkled paper from delivery end of machine, sometimes also adjusts pressure of rollers by means of screws.

cutter, paper (cable making, paper tubes); **paper slitter**, **slitting machine driver**; places reel of paper in position at feed end of slitting machine, using block and pulley to lift it; adjusts cutters of machine, using measuring gauges; guides paper through machine to spindles on which it is to be re-reeled after being cut; switches on power-drive of machine; watches to see that cutting and re-reeling are going on without a hitch; removes paper, when slit, from spindles on which it has been re-reeled.

cutter, paper tube; places length of paper tube on spindle of cutting machine; adjusts cutters to length required; switches on power-drive of machine; presses treadle to bring cutters into contact with revolving mandrel; removes portions of tube, when cut.

cutter, telegraph paper, *as for* cutter, paper (cable making, paper tubes), cutting paper for tape machines.

cutter, tube; cuts long cardboard tubes to lengths required, usually by power machine.

cutter, wood, *as for* gun wad maker.

cutting machinist (razor cases); places razor case mould in machine; presses lever, so that outer case is cut through; removes mould, slides off top and cuts end of bottom or socket of case square in machine; sometimes done by hand knife by razor case maker *g.v.*

dryer; dries sheets of vulcanised fibre by hot air in drying room.

ender-on; *as for* (1) a binder *g.v.* who sticks a strip of gummed paper on the ends of cardboard boxes by hand, when box is too large to have both sides and ends of one piece; (2) a binder *g.v.* who holds box in position on block of machine, brings end of gummed paper strip in contact with box and moves lever setting machine in motion.

envelope straightener; flattens, by belt movement of hand, curling gummed edge of envelopes, as delivered by drying machine.

examiner, *see* sorter.

eyelet machinist (paper goods); *as for* eyelet machinist (549).

face and backer; a corrugator *g.v.* operating a machine which corrugates paper and applies corrugated material to face and back of plain material, setting them with adhesive; also keeps trough of machine filled with adhesive.

finisher, *see* fitter.

fitter; assembler, finisher; operates a machine which attaches bottoms to cardboard cylinders intended to be used as containers for jam, etc.; work similar to that of blocker (cartridges) *g.v.*

flag maker (paper); gums together two pieces of paper, printed with flag design, each on one side, and attaches them to stick, pin or string at folded edge.

flange coverer; a coverer *g.v.* working on flanged boxes.

flange fixer; tops extension or flange, by machine, to top and bottom of cardboard before it is folded to form box.

folder maker; makes throughout folders for holding papers; passes cardboard sheet through machine which punches and creases it; passes strip of metal through punched holes; fixes metal strip in position by wire-stitching or gluing back, and attaches clip.

frontier (music rolls); glues front or apex, containing title of piece of music, on to end of perforated sheet.

glazer (paper cartridge cases); *polisher*; places cartridge cases on holder of machine and glazes or polishes them by passing a burnishing iron to press on surface, as case revolves.

gluer; (1) applies adhesive to paper or cardboard, by hand with a brush, in manufacture of cardboard boxes, tubes or other articles; (2) passes cardboard over roller into gluing machine, which carries it to a wheel running in a glue well, where glue is automatically applied; machine may also fold cardboard, press it together and deliver at back.

gold tipper (cigarette papers); (1) hand process, applies strips of gold leaf to sheets of paper, using adhesive; afterwards wipes off superfluous gold with pad, and cuts guided paper to size required with a guillotine cutter; (2) machine process, fastens spool of paper on

machine, which takes up first adhesive composition and then gold dust from boxes; sees that boxes in machine are kept filled with gold dust and adhesive composition; regulates power which drives machine and supervises running of machine generally; makes minor adjustments to machine when required.

groover (cardboard boxes); passes thick sheets of cardboard into machine which cuts grooves in them so that they may be more easily bent to box form; controls machine by levers; sets gauges; starts grooved sheets or boards.

gun coating machinist; gumming machine feeder; fixes, with assistance of labourers, reel of paper in a machine which, by a system of rollers, takes up gum from a duct or trough and applies it to paper; paper is then conveyed, machine by machine, through drying room to re-rolling machine, guides end of paper between rollers of machine, and switches on power-drive of machine; directs labourers who fill trough or duct of machine with gum; watches re-rolling end of machine, and if paper shows any break or splitting, makes necessary adjustment or does repairs, by hand.

gummar, *as for* gluer.

gumming machine feeder, *see* gun coating machinist.

gun paper sorter; sorts or grades, in various qualities, sheets of gun paper by hand; throws out defective sheets.

gun wad maker; wad cutter (corridger); cuts out circular discs of cardboard, for use in sporting cartridges, on a machine.

handler (paper bags); paper bag drawer, stringer (paper bag); mixes string handles to paper bags by (1) laying ends of handle in position on bag and fastening down with strip of gummed paper, (2) gumming paper over the ends.

hydraulic press attendant (compressed paper); presses vulcanised fibre sheets in a heated hydraulic press.

impregiator (parchment containers, tubes, etc.); receives containers etc. from flasher (553) *g.v.* and places them on a moving band which carries them through a bath of melted wax; removes impregnated articles and sets them to dry, may add gas jets which heat the bath to correct temperature, and replenishes wax bath, where this is not done by machine (545).

labeller; affixes labels, prints, etc., to tops and sides of finished cardboard boxes, either by applying paste or other adhesive by hand with brush, or by flocking labels, etc. on to paste or glue board, or by placing boxes on block of labelling machine.

label sorter; examines completed labels and rejects any that are unsatisfactory.

lacing machine operator; places cardboard box on block of lacing machine and sets machine in motion by moving lever so that pasted lace paper is affixed to inner edges; the result is lace paper on spindle and replenishes paste box.

lids, slider-up; puts together, by hand, finished lids and boxes to form complete articles; if necessary, inserts lids in punching machine to have thumb holes punched in them; sometimes also ties up completed boxes in bundles.

mingler (gummed paper goods), *as for* mingler (518).

moulder (bottle caps); places paper caps on end of rotating spindle of a machine, by hand; uses a small bone instrument to press lower end of cap against spindle, constricting it at point where cap closes on bottle neck.

mouthpiece maker (cigar and cigarette); cuts stiff rolled paper to specified size on guillotine machine, which may be a treadle or a power machine; rolls mouthpieces and sticks edges, by hand, using gum or other adhesive.

nailer, nailer-up; nails together sides and ends of wooden frames and staples cardboard sides, by machine or by hand, to make wood strengthened cardboard boxes, drawer's fixture drawers, etc.

paper cap machine operator; puts parts of paper caps or similar articles in machine which automatically completes them and delivers finished articles at rear of machine.

paper cap or hat maker; (1) cuts out paper caps or hats with hand knife; (2) pastes edges of paper together to make caps, etc., of different patterns.

paperer (cardboard boxes), *see* coverer.

paper grinder; chaser, by machine, each edge of paper which is to form paper tube, so that there is no extra thickness at joint.

paper pattern folder; folds together, by hand, pieces of paper pattern.

paper pleating machine operator, *see* pleater.

paper splitter, *see* cutter, paper (cable making, paper tubes).

paper tube maker; case roller, container tube maker; roller (paper tubes), spiral winder, tube winder, tube roller, tube winder; feeds paper from reels into tube-making machine which pastes paper and rolls it into a tube until it reaches required thickness, *see* by gauge; brings cutting discs into play at end in length; sees that glue boxes in machine are kept filled.

passer (cardboard boxes), *see* sorter.

paste (cardboard boxes); board combiner; *as for* board liner, except that thin cardboards of various weights are used instead of paper.

pattern card mounter; pattern counter; fixes fabric patterns to cords with metal tag or gum.

pattern card trimmer, *as for* card trimmer.

pattern mounter, *see* pattern card mounter.

piecer-on, *see* ender-on.

pleater; paper pleating machine operator; (1) runs paper from small reel between rollers of machine which plants it into pleat folds, etc.; (2) places small discs of paper in revolving machine which, by an automatic plunging movement, plants them into capsules, and ejects completed capsules into basket beneath machine.

polisher (paper cartridge cases), *see* glazer.

post card counter; counts post cards into packets of 10, 25, 50, etc.; makes up assorted packets of picture post cards.

post card trimmer, *as for* card trimmer.

post wrapper gummer, *as for* coverer.

pyramid maker (tobacco factory); makes dummy cigarette boxes, etc., of cardboard, and fastens them together with paste, forming pyramid for exhibition in tobacconist's window.

razor case maker (paper); (1) wraps by hand pieces of brown paper soaked in glue size, round wood mould; then wraps round patterned paper and greases with tallow; when dry wraps round further layers soaked paper squares up by pressing in a heated press operated with hand lever, sets to dry; case then passes to embosser (552), varnisher and cutting machinist *g.v.*; (2) feeds and controls by lever machine which makes cases automatically from paper maché.

roller (paper tubes), case roller, *see* paper tube maker.

roller girl (parchment containers); folds parchment-like paper lightly round a cone of wood or metal, having shape of container to be formed, and pastes overlapping edges round by finisher (553).

shaper (cardboard boxes), *see* binder.

sheet liner (cardboard boxes), *see* board liner.

shell maker (paper mill); a paper tube makes g.p. who makes tubes (generally of cardboard) upon which paper is wound.

slitting machine driver, *see* cutter, paper (cable making, paper tubes); *striker*; *examines finished cardboard boxes, envelopes, paper tubes, etc., and rejects any that are defective.*

spiral winder, *see* paper tube maker.

stacker (cardboard boxes); stacks cardboard boxes passed along belt of automatic staving machine, ready for binder g.p.

stayer (cardboard boxes); a binder g.p. who strengthens box by binding edges with gummed paper strip in machine.

stencil gluing machine (cardboard boxes); operates stencil gluing machine which affixes labels to cardboard boxes, applying glue to edges of label only.

stitcher (cardboard boxes), wire stitcher; wire stitches or rivets cardboard boxes, by looking across under needle or punch of power-driven machine; controls machine by switch or lever; sets hobbin of wire in machine and threads end through eye of needle.

stringer (paper bag), paper bag stringer, *see* haulier (paper bag).

stripper (cardboard boxes); breaker; breaks off waste board from edges of stamped-out box blanks as they come from stamping machine.

tank minder (vacuumized fibre); tank minder; puts sheets of vacuumized fibre in tanks or tubs of water, to extract acid left by chloride process, *cf.* vacuumized fibre machine minder (558); turns taps to empty or fill tanks, as required; removes sheets from tanks when time indicated by foreman has elapsed.

teletype tape maker, *see* for cutter, paper.

ticket sorter; sorts tickets after they have been out and printed.

tin card moulder; moulder with paste or gum, pieces of paper coated with different kinds of paint, distemper, stain, etc., to numbered and named spaces on tin card.

topper and bottomer (cardboard boxes), *see* bottomer (cardboard boxes).

trucker (paper tubes); collects trays of wet tubes from tube making machines, and conveys them in trucks to drying stoves.

tube maker, tube roller, tube winder, *see* paper tube maker.

tub minder, *see* tank minder.

turner-in (cardboard boxes); (i) strips corners of gummed or pasted paper projecting beyond edges of cardboard boxes with scissors; turns in or fastens down top and bottom edges and smooths with fingers, (ii) places box on block of machine and sets machine in motion by moving lever so that edges of covering paper are automatically turned in.

varnishbar (fibre can), fibre can varnishbar; coats exterior of fibre can with varnish, by dipping or brushing.

varnishbar (razor case); coats case by hand by brushing with black varnish.

wrapper; feeds machine which pastes and covers cardboard boxes or lids entirely with paper.

ORDER XVII.—BUILDERS, BRICKLAYERS, STONE AND SLATE WORKERS, CONTRACTORS.

Sub-Order 1.—Builders, Bricklayers, Stone and Slate Workers; Contractors.

600.—EMPLOYERS AND MANAGERS.

master sinker (mine); usually a contractor who undertakes vertical excavations through strata for mine shafts; supplies or hires plant and machinery; employs necessary labour, *e.g.*, head sinker (561), borer (560)

(*q.v.*), supervises making of trial borings to test probable mineral wealth of prospected mine; is usually an authority on geological surveys. waywarden; undertakes the maintenance of trenches on a sewage farm, under contract; engages and supervises work of labourers, and of bricklayers if trenches are brick lined.

561.—FOREMEN AND GANGERS.

bank walker (canals, waterworks, etc.); patrols banks of canals, rivers, channels supplying waterworks, or of waterworks filter beds, and is responsible for their maintenance and repair; notes any defects or leakages in banks, and gives instructions to handmen (581) (*q.v.*) as to necessary repairs, *e.g.*, concreting, timbering.

bricklayer (charge hand), *see* foreman bricklayer.

chargeman (railway); a foreman (*q.v.*) or a ganger (*q.v.*) in charge of men engaged on permanent way work on a railway.

foreman; (i) supervises and sometimes engages and discharges some or all men engaged on a job or in a workshop or yard; is responsible for efficient carrying out of work done by men under him; sometimes sets or lays work out according to plans, specifications or instructions using levelling, measuring, and other instruments; is often responsible to employer for ordering and issuing material and for economical use of material; sometimes keeps records of time worked by each man, or checks record kept by timekeeper (562) (*q.v.*) or other employee, and prepares time and wages sheets, sometimes also pays workmen on behalf of employer; often allocates responsibility for certain jobs, or for certain sections of work, to sub-foremen or gangers (*q.v.*); usually a practical expert in one or more crafts, or in one or more departments of employer's business; often specifically designated, *e.g.*, bridge foreman (railway bridge construction and repair), foreman clayman (railway), foreman clayburner (*see* clayburner (561)), foreman dyker (cutting or repairing dykes on railway land), permanent way foreman (railway), relaying foreman (railway), renewal gang foreman (railway), foreman of street works, (ii) in building trades, *see* foreman, general (building trades).

foreman, ballast crushing; directs work of gang working on ballast crushing machines, and sees that work is being carried on satisfactorily; keeps records of output of machine, and of material received and sent away; if crushing is done at ballast pit also directs work of men engaged in excavation, and records quantities of material excavated and number of loads sent away; engages and discharges workpeople, as required, usually also keeps time and wage records, and sends records weekly to employer; sometimes also superintends concrete mixing operations, *i.e.*, mixing of ballast with cement and water, where they are carried on in conjunction with ballast crushing.

foreman, bricklayer; bricklayer (charge hand), supervises bricklayers (565) (*q.v.*) engaged on construction of brickwork. usually works under direction of general foreman (*q.v.*), is responsible to him for efficient carrying out of brickwork, and consults with him, as to engaging or discharging bricklayers, gives measurement and levelling instructions to bricklayers, indicates nature of bond required, *i.e.*, style in which bricks are to be laid, and sometimes lays first course, or first two courses as a model for bricklayers; indicates, by measurements, exact position of window and door openings, and position of arches over these; sometimes draws, from

working drawings supplied by general foreman, plan of particular arch required in each position.

foreman, builder's, *see* foreman, general (building trades).

foreman, gas or water (gas and water mains); in charge of gas or water main laying operations in a particular area, or is responsible for upkeep and repair of mains in such an area, receives instructions from headquarters of gas or water undertakings as to laying or upkeep and repair of mains, and passes on such instructions to pipe linemen (559), pipe or service layers (578), and labourers (581) (*q.v.*) and directs their operations; requisitions materials from headquarters, and keeps records of materials received, reports from time to time to headquarters on progress of work; keeps time records of men employed under him; engages or discharges men, as required, directly or indirectly; sometimes tests mains, or supervises tests thereof, to detect possible leakages, using test meter for gas and stethoscope for water.

foreman, general (building trades); foreman, builder's foreman; is responsible to employer and to architect for efficient carrying out of constructional or repair work on a building and consults with them, or reports to them, as required; gives detailed instructions to foreman bricklayer (*q.v.*) and other sectional foremen and to gangers (*q.v.*) as to work to be done; gives them orders, requisitions for materials, and prepares working drawings, for their guidance; often helps in setting or laying out of work, using drawings and specifications supplied by architect; uses theodolite and dipping levels, *i.e.*, large spirit levels, to obtain levels on building site; keeps day work records of casual workmen, and sometimes also keeps time records of all workers, forwarding these records weekly to employer; orders materials required for building, firms, or requisitions them from employer's yards; engages or discharges workers as required, either directly or through sectional foreman.

foreman mason; in charge of men engaged either on a yard, dressing stone for use in building or as monuments, or erecting stone on building site; (i) in yard, superintends work of banker masons (572) (*q.v.*) employed in yard, sets or lays out work to be done by banker masons, from architect's drawings, using set-square, board, rectal templates (which he sometimes cuts out) and various squaring and measuring tools; (ii) on building site, superintends work of fixer masons (572) (*q.v.*) erecting stone on site, under direction of general foreman (*q.v.*); for more general duties, *cf.* foreman bricklayer.

foreman pavior; paviers' ganger, (i) a working foreman (*q.v.*) working with and directing operations of a small number of paviers (579) (*q.v.*) engaged in repair or maintenance of paving; (ii) chief operations, *see* ganger.

large gang of paviers; or of a number of traveller groups of paviers working on different sections of paving job, each under its own ganger (*q.v.*); sets out work according to measurements or pre-arranged plan; issues instructions to gangers or paviers regarding contours, levels, etc.; engages or discharges workers, as required; sends time records and progress reports to headquarters.

foreman pipe layer; superintendent of street pipe laying (waterworks); is responsible to employer, *e.g.*, contractor, town authority, gas or water company, for efficient carrying out of drain, gas, water or other pipe laying job; directs men engaged in laying and jointing of pipes, indicating where, according to plans and specifications, manholes, trenches are to be dug; sees that correct alignment and required gradient are being preserved, using various levelling and other instruments; sometimes sets out

by measurement, or according to plan, exact size and depth of manholes, if any, and directs bricklayers engaged in building them; requisitions for materials from headquarters; keeps record of work done, and reports to headquarters; sometimes keeps time records of men employed, and forwards them to headquarters; engages and discharges workers, directly or indirectly, as required; sometimes also takes test readings of pipes, using compressed air testing appliances for gas, or hydraulic test appliances for water.

foreman platelayer, platelayer foreman; foreman surfaceman (railways). *foreman wayman;* is responsible to railway authorities for upkeep of permanent way of railways, including works, railways or water sidings, and is in charge of platelayers (577) (q.v.) employed thereon; cf. ganger (571).

foreman, road; highway ganger, road ganger, foreman surfaceman (roads). *relaying slip and drainage ganger, slipman and drainage ganger, slipman and drainer ganger;* a foreman (q.v.) in charge of men constructing, repairing, widening or otherwise improving roads and is usually responsible to local authority (in repair work) decides which parts of road are to be torn up with picks or with scarifier, i.e., apparatus attached to steam roller, and instructs workers as to kind of surface required; cf. foreman of street works.

foreman slag crusher, as for foreman, ballast crushing.

foreman, slag mill, as for foreman, ballast crushing.

foreman slater; a foreman (q.v.) who superintends slaters (570) (q.v.) engaged on job, and, on small jobs, works with them; consults with carpenters (474) (q.v.) as to spacing of roof rafters, and with plumbers (232) (q.v.) as to lead or zinc work, so far as these affect slating operations.

foreman surfaceman (roads), see foreman, road.

foreman surfaceman (railways), foreman wayman, see foreman platelayer.

foreman, working; leading hand, (building trade); a foreman bricklayer (q.v.) or other sectional foreman who works at trade side by side with men whom he superintends, usually on a small job; usually works under direction of general foreman (q.v.).

foreman, yard; a foreman (q.v.) in charge of a builder's or other yard and of material or stores contained therein; keeps records of materials or stores in stock and orders new supplies as required; directs loading or unloading of materials.

ganger; in charge of a gang of men, e.g., navvies, engaged on a job or an section of contract, usually under control of a foreman or general foreman (q.v.), whose instructions he passes on to gang; is responsible for efficient carrying out of work by men in gang; sometimes keeps records of men in his gang and recommends to foreman engaging or discharging of workers; sometimes, on smaller jobs, works with the men; often specially designated e.g., ballast ganger (railway), ballast loading ganger, electrification ganger, railway ganger, sand loading ganger.

ganger, bridge tending; a ganger (q.v.) in charge of gang engaged in tarring iron or wood work of railway bridges; gives instructions to scaffolders (564) (q.v.), if such are employed, regarding erection of scaffolds.

ganger, drainage; a ganger (q.v.) in charge of gang engaged in excavating trenches and laying drain pipes therein under instructions from headquarters, e.g., local authority, or from foreman pipe layer or district foreman (q.v.); instructs workers as to correct alignment and jointing of pipes.

ganger, extra; (i) in charge of a gang of men kept in readiness for use in any emergency, meantime performing odd duties; (ii) stands by to take place of working ganger in emergency.

ganger, flying aqued; controls and directs work of gang engaged at place of breakdown on permanent way.

ganger, highway, see foreman, road.

ganger, length (railway); a ganger (q.v.) who is responsible for supervision and maintenance of length or section of permanent way on a railway.

ganger, navy; in charge of a gang of navvies engaged in excavating soil for making permanent way of railways, or in digging foundations for buildings, or trenches for laying pipes, cables, etc.; issues instructions as to depth and width of trenches, etc., and gauges depth of trenches or workings by means of profiles, i.e., T-shaped timber framework, set at intervals along trenches.

ganger, paviors', see foreman pavior.

ganger, relaying slip and drainage; slipman and drainage ganger, slipman and drainer ganger; (i) (railway) controls and directs work of gang engaged in laying drains, etc., or in relaying slips of earth and drainage; (ii) (roads), see foreman, road.

ganger, road, see foreman, road.

ganger, walking (pavior); a ganger (q.v.) employed by local authority, who goes from place to place to see that men, e.g., road sweepers, dust collectors, paviors, steam roller men, working alone or in scattered parties, are carrying on their duties satisfactorily.

head slaker; a foreman (q.v.) in charge of mine borers (580) (q.v.) making trial borings or sinking mine shafts, and in responsible to master slater (580) (q.v.) for efficient carrying out of work; supervises erection of hauling or lifting apparatus at head of shaft; directs borers as to boring tools to be used; sometimes works as a borer.

inspector (sets); a foreman (q.v.) employed at quarry to examine sets made by settmakers (375) (q.v.); sees that sets are properly dressed and true to measurements.

leading hand (building trades), see foreman, working.

plaster house leader; a foreman (q.v.) in charge of plaster house-men (589) (q.v.).

skipper; slang name given to foreman, ganger, leading hand (q.v.).

superintendent of flag yard; (i) in charge of yard where flagstones are stored; keeps records of flagstones received and issued; (ii) in charge of masons (572) (q.v.) dressing flagstones in a yard, and works with them; keeps time records of workers and output of work.

superintendent of street pipe laying (waterworks), see foreman pipe layer.

562.—CLERKS OF WORKS.

clerk of works; represents architect, civil engineer, or building owners at building or other works under construction, to ensure that designs and conditions of contract are duly observed; examines quality of materials; measures up work done and reports periodically.

563.—BUILDERS' (not otherwise distinguished).

builder's bandyman; property fobber, property repairer; has limited skill in all types of building operations, and employed on simple jobs in brick-laying, painting, paperhanging, plastering, and sometimes simple plumbing.

house repairer; a builder's bandyman (q.v.) employed on house repairing; sometimes also performs work of plumber (526) (q.v.).

property jobber or repairer, see builder's bandyman.

564.—BUILDERS' LABOURERS.

black and fall man; fixes pulleys in position on building scaffold, and ropes or chains for working pulleys, by which building material is hauled up to stagings; work usually done by scaffolder (q.v.).

brick chipper, brick cleaner; cleans previously used bricks, ready to be used again, by chipping them with an axe or chopper to remove pieces of mortar or cement adhering to them.

builder's labourer; assists, or waits upon, skilled building trades operative in a great variety of jobs.

drainar (builder's); a skilled navvy (581) (q.v.), or labourer who digs channels, water courses, or sewers, to carry off water or drainage; sometimes lines channel with brick or concrete, usually done by bricklayer (565).

excavator (builder's); (i) a navvy (581) (q.v.) engaged in digging out soil, for foundations of buildings, trenches for drains, etc.; (ii) helps to set up mechanical excavator, e.g., steam navvy, steam shovel, and remove excavated soil in barrows, or shovels it into skips or tubs, etc., for removal.

mortar grinder, mortar mill grinder; shovels rubble, bricks, sand, stone, lime, cement, or other materials into pan of machine, which either grinds them, simply, in dry state, or grinds and also mixes them into mortar; in latter case, regulates by means of top flow of water into pan; shovels ground and/or mixed material out of pan when operation is complete.

mortar mill labourer; assists mortar grinder (q.v.) in shovelling materials into mortar grinding or mixing machine, and in removing ground material, or mortar, therefrom; sometimes also wheels materials to machine, and wheels powdered material or mortar away, in a barrow.

mortar mixer; mixes mortar, for use of bricklayer (563), mason, (572), etc. (q.v.); makes ring of sand, with shovel, and shovels lime into centre of ring; pours water on lime, to slake it; when it is slaked, pours on more water, draws sand into lime with a long-handled tool, i.e., larry, and works material to and fro until they are thoroughly mixed; prior to mixing, sifts sand, if necessary, with a hand sieve or by throwing it, with a shovel, against a vertical sieve.

mosaic worker's labourer; a builder's labourer (q.v.) who mixes sand, cement, and water with a shovel, in correct proportions, as instructed by foreman (563) (q.v.); carries mixture to mosaic worker (571) (q.v.) for use in making cement bed for mosaics; also makes a slurry of cement with water by stirring it about with shovel to make liquid cement for pouring over mosaic when laid; carries slurry to mosaic worker in pail or other receptacle.

pug mill machineman, pug mill worker; see corner grinder; pug mill is commonly thought of as used in building trade to denote an edge runner mortar grinding pan, driven by power; cf. pug miller (119).

rigger, scaffold rigger, see scaffolder, scaffolder, scaffold builder; rigger, scaffold rigger, slinger, staging hand; (i) sets up vertical poles, and secures them firmly in earth or in tubs filled with soil or concrete horizontal and diagonal poles, and pulleys, i.e., short horizontal poles at right angles to longer horizontal poles, thereto with ropes or chains, and tightens knots in ropes or chains by hammering wedges into them; (ii) erects and secures bays for staging on which bricklayers (565), etc. (q.v.) work; erects pulleys, or blocks and falls, for use in raising material to stagings; (iii) erects patent screwbolting, i.e., steel tubes fitting into one another, which is secured by bolts.

altagar, *see* scaffolder.
staging hand, *see* scaffolder.

yard boy; engaged upon light unskilled labour in or about the yard, *see* *yard boy*.
yard sweeping and stacking material.
yard man; does the heavier type of unskilled labour in builder's yard, *e.g.*, loading and unloading material, stacking heavy material, and preparing tracks of materials for jobs, as required.

666.—BRICKLAYERS.

boiler fixer, boiler setter, boiler setter; a bricklayer (q.v.) who builds brickwork foundations or setting for boilers and fixes boilers in position.
brick archer, brick arch builder, brick arch man; a bricklayer (q.v.) who specialises in building arches of fire chambers or kilns, furnaces or ovens.
lays bricks, usually fire bricks, or spreads fire clay, on wooden centring, *i.e.*, framework in shape of arch erected by carpenter (174) (q.v.), and removed when arch is set.

brick cutter; a bricklayer (q.v.) who specialises in setting out and cutting of bricks for fire arch or pier work, *i.e.*, gauged work; makes working drawings from plan, on setting-out board, exact shape of each separate brick being indicated; cuts bricks, *i.e.*, a special soft kind known as cutting bricks, to required shape with wire saw, using both mallets, boxes, and/or wooden templates; rubs bricks smooth, after cutting, on flat stone; sometimes done by gauged arch fixer (q.v.).

brick kiln builder; a bricklayer (q.v.) who builds kilns for burning bricks.
brick kiln repairer; a bricklayer (q.v.) who repairs kilns for burning bricks.
bricklayer; *bricklayer* (always); lays bricks in lime or cement mortar so that wall, etc., is tied well together, and in such a way as to avoid continuous vertical joints; lays foundations, damp courses, etc.; sometimes specifically designated according to purpose for which bricks are laid, *e.g.*, furnace bricklayer, sanitary bricklayer.
bricklayer, firework; furnace bricklayer; muffle bricklayer; furnace builder, muffle builder; (i) a bricklayer (q.v.) who builds brickwork of furnaces for factories, etc.; (ii) *see* furnace liner.

bricklayer (pottery); a bricklayer (q.v.) who bricks up oven doorways *i.e.*, clammings, when oven is ready for firing; does other similar work requiring skilled bricklaying, specially adapted to pottery's oven.
bricklayer, sanitary; house drains layer, house drain repairer; a bricklayer (q.v.) competent to lay and test house drainage, and to build in brick manholes, inspection chambers, etc.
brick setter; a bricklayer (q.v.) who builds foundations for boilers, or builds and repairs furnaces.

brickly (slang), *see* bricklayer.
chimney builder, chimney repairer; *fixe* builder; a bricklayer (q.v.) who specialises in the building or repair of chimneys, flues, etc.
cupola outdrier, cupola fettler, cupola repairer; a specialised bricklayer (q.v.) who builds or repairs cupolas, lining with fire brick; patching with clay is done by cupola rammer, cupola tenter (180) or foreman; *cf.* bricklayer, firework.

cupola rammer; rams refractory material between firebrick lining and iron shell of cupola, with long handled iron tool; usually done by cupola builder, fettler or repairer (q.v.).

fettler (steel works); repairs lining of converters, cupolas or furnaces with refractory material, between heats; fills up cavities formed by action of corrosive slag, and parts which have crumbled away owing to high temperature; also repairs top holes and inbye parts; sometimes done by furnacemen (171) (q.v.) and his helpers; *cf.* fettler (183).

fireplace fitter; a bricklayer (q.v.) who builds fireplaces and fixes in iron grates, marble surrounds, etc., *cf.* range builder.

fire builder, *see* chimney builder.
furnace builder, *see* bricklayer, firework.

furnace liner; firework bricklayer, furnace bricklayer, muffle bricklayer; a bricklayer (q.v.) who lines furnace with firebricks or blocks set in fire-clay or a fire resisting cement.

furnace repairer; a bricklayer (q.v.) who is engaged in repairing brickwork of furnace.

gauged arch fixer; a bricklayer (q.v.) engaged in building gauged arches, *i.e.*, arches made of bricks specially shaped by cutting, generally cuts as well as fixes bricks; *cf.* brick cutter.

grave builder; a bricklayer (q.v.) employed at a cemetery in building brickwork of graves, vaults, etc.

house drain layer, house drain repairer, *see* bricklayer, sanitary.

muffle builder, *see* bricklayer, firework.

oven builder, oven maker, oven repairer; a bricklayer (q.v.) who specialises in building or repairing bakers' ovens, or other ovens for heating or drying.

oven liner; a bricklayer (q.v.) who lines the inside of ovens with fire bricks; often done by oven builder (q.v.).

pointer, brick pointer, house pointer, tuck pointer; picks out old mortar from joints of brickwork and replaces with finely prepared mixture of cement and sand, using a special small trowel, called a pointing trowel; in tuck pointing, points with mixture of cement and sand coloured to tone with brickwork; finishes pointing with a fine joint of white or black mortar, applied with a tuck pointing tool; generally done by a bricklayer (q.v.), but some men specialise in pointing, and cannot lay bricks.

range or stove builder, range fixer; *fixure* setter, *stove* setter; a bricklayer (q.v.) who erects brickwork of stoves or ranges, *e.g.*, sides or jambs and flues; receives ironwork of stove or range in sections, bolts or screws them together and builds them in with brickwork setting pieces by piece, with fire-resisting cement.

retort builder; retort setter; a bricklayer (q.v.) engaged in building gas retorts of firebricks and fireclay, *i.e.*, series of arched furnaces used in production of coal gas at gas works; also builds brickwork flues connected therewith.

retort mender, retort patcher; a bricklayer (q.v.) who repairs retorts by relining with fireclay bricks; or by mixing fireclay, placing quantity on end of long rod or pipe, inserting pipe into retort, depositing fireclay in hole or crack to be mended, and working it well into position.

rockwork builder; sets in cement old broken bricks, rock stone and rubble to form walls or rock gardens and borders.

setter, *fixure*; stove setter, *see* range or stove builder.

setter, retort, *see* retort builder.
sewer builder; a bricklayer (q.v.) who builds such sewers as are of brick construction; also lays pipes to which household drains are connected.

terra cotta fixer; a bricklayer or a mason (32) (q.v.) who fixes terra cotta tiles, other than roofing tiles, or terra cotta facing blocks; sometimes also fixes ornaments, *e.g.*, statues, vases, etc., to fronts of buildings in similar manner to ordinary brickwork or stone-work.

trumpet maker (blast furnace); a fettler (steel works) (q.v.) who lines vessel, through which molten steel passes in Siemens process, with either composition or firebrick.

566.—BRICKLAYER'S LABOURERS.

bricklayer's labourer, bricklayer's assistant, bricklayer's board carrier, bricklayer's hod carrier, bricklayer's hodman, bricklayer's tender; *hod carrier*, *hodman*; mason's mortar; carrier mortar, bricks, etc., to bricklayer (565) (q.v.) and waits on bricklayer generally.
hod carrier, hodman, *see* bricklayer's labourer.

567.—PLASTERERS.

architectural modeller; a plasterer (q.v.) who specialises in making by hand, with wooden tools known as scapels, models to scale in plaster of Paris, clay or gessoine, from architect's design; makes the moulds from such models by pouring liquid plaster thereon.

tempo press man, compo press worker; measures required quantities of ingredients, usually resin, whiting, glue and oil, to make "compo," or composition for relief decorative work; ingredients vary, according to different qualities of compo required, known as "composition," "carton pierre," and "papier maché"; beats each ingredient in a separate copper or jacketed boiler, which is heated by steam generated by gas; regulates heat of copper; mixes contents of each copper by stirring it by hand; pours contents of all four coppers into a tub or other receptacle, and mixes them together, with a long piece of wood, to consistency of putty; cuts compo when mixed, into suitable slices by hand with a knife, and places these pieces on floor of workshop to cool; when required for mounting on wall or cornice, re-beats compo in steam-heated boiler to consistency of putty, and presses it into specially prepared wooden moulds by hand; then puts moulds into hand press and presses compo and moulds with hand levers; removes moulded compo from press and trims it, by hand, ready for mounting.

throwa fixer; nails or screws fibrous plaster on walls or ceilings; fills in joints and sometimes finishes corners or mitres, with specially prepared plaster, using trowels and other hand tools; sometimes done by a plasterer (q.v.) specialising in such work.

throwa plasterer; a plasterer (q.v.) who applies plaster with a trowel to a cotton sheet held in a rough framework of laths, "stick and rag work"; builds up plaster ornaments, *e.g.*, ceiling cornices, "roofs" for ceiling centres, in plastic state, and applies wooden moulds thereto to give shape of article required; finishes-off plaster ornaments with trowels and other hand tools.

lath nailer, lathbar; nails laths in position ready for plasterer; in many parts of country done by plasterer (q.v.).

plasterer; applies plaster with plasterer's trowel and float to walls, ceilings, partitions, etc., to render a smooth hard surface; sometimes previously affixes laths over which plaster is spread.

rough carter; (i) prepares surface of exterior walls with groundwork of cement or lime mortar and finishes with washed shingle, the shingle being thrown on to surface before mortar is set; (ii) throws rough mixture of shingle and lime mortar on surface of exterior walls. (iii) directs mechanical means of removal of mortar, and calls-pumpers, streams of mortar, and afterwards shingle, on to exterior surface of walls.

stucco carver, stucco pointer; carves designs on cement work or stucco, on exterior of a building, when it is partly set, or draws lines on otherwise plain work representing blocks of stone, using small pointing trowels or other tools.

568.—PLASTERER'S LABOURERS.

plasterer's labourer, plasterer's mixer, plasterer's server; works with plaster (567) (q.v.) and mixes or prepares materials and hands them to him, or carries them in a hod to the scaffold on which he is working.

569.—GLAZIERS.

decorative glass worker; makes decorative glass panels or windows, following an artist's design; cuts ornamental and coloured glass into various shapes by a diamond cutter, and fits them into lead or copper channels in a framework; solders joints with soldering iron or with blow-pipe and solder.

glazier, cuts glass and fits it into window frame with putty; is also done subject to vibration, e.g., of carriages, motor cars, shop windows, etc., fits frame edging over rubber or leather packing, round the glass.

glazier, church lead, see glazier, fret.

glazier, fret; church lead glazier, fret lead glazier, glazier (stained glass windows), lead worker in stained glass; his together stained glass windows for churches, etc., by cutting and fixing pieces of stained glass with putty or cement into strips of grooved lead, which he solders together, in accordance with artist's design; usually done in manufacturer's workshop, but sometimes in building where the roof is to be placed; cf. lead window maker.

glazier, first lead, see glazier, fret.

glazier, lead, see lead window maker.

glazier, patent; cuts to proper shape and inserts in rebates of patent section frames, sheet or moulded glass used in patent glazing.

glazier, pavement lighter; mixes cement and spreads a sufficient quantity in packets of iron frames for pavement lights cast to shape; when cement is partly set presses glass moulds or prisms into position; may add iron spikes or slabs or other fittings to prevent undue wearing of cement; in repair work, first cuts out worn or broken glass with hammer and cold chisel.

glazier (stained glass windows), see glazier, fret.

lead light fixer; inserts metal bars, by hand, in window frames; dips lead lights, decorative glass in lead framework, to these bars with wire; where metal frames are used, sometimes fixes lead lights to metal frames with screws; work sometimes done by carpenter (474) (q.v.).

lead light maker, see lead window maker.

lead window maker; lead glazier, lead light maker; makes leaded windows by fixing small pieces of white glass or white and coloured glass in a lattice framework of lead with putty or cement in accordance with a simple design.

lead worker in stained glass, see glazier, fret.

plate glass fitter; a glazier (q.v.) who specialises in cutting and fixing plate glass.

three branch hand; a glazier (q.v.) who can also undertake planing and painting; applies only to small country shops.

window glass cutter; cuts glass to measurement for window frames, doors, etc., by hand, using diamond cutter, measuring rules and T square.

570.—SLATING AND TILING.

asbestos slater; paper slater; fixes by hand, with hammer and nails, asbestos slates, tiles, or sheets used instead of slates on roof.

blue slater; a slater (q.v.) who works in blue or ordinary slates, as distinct from grey slates; cf. grey slater.

felt roofer, feltier; covers roof with "felt" before it is slated; and fastens down with hammer and nails.

grey slater; Westwoodland slater, parchmenter slater, parchmenter rough caster (slater); a slater (q.v.) who works in parchmenter or grey slates; requires more skill and experience in matching, bedding and trimming, owing to difficulties of material worked in.

paper slater, see asbestos slater.

parchmenter rough caster, parchmenter slater, see grey slater.

roof repainer; a slater or tiler (q.v.) who repairs damaged roofs.

roof tiler; instructs carpenter as to correct distance between battens on roof, which depends on size of tiles; nails tiles to battens; trims tiles to fit awkward places in roof, with hammer and chisel or with special cutting tool; fixes and torches ridge tiles, cf. slater.

rough caster (slater), see grey slater.

sheet asphalt roofer; an asphalt layer (570) (q.v.) who spreads hot asphalt brought to him by a labourer, on flat roof, using hand trowel, wooden float, or a similar tool.

slater; sorts slates into "clumps," i.e., into groups of approximately equal thickness, and takes care that those in same clump are fixed together, to preserve uniformity; sees that labourer leads roof properly; trims edges of slates, with a chopping tool called "axe"; marks, with a gauge, places where holes are to be pierced in slates and pierces holes, where indicated, with a spike attached to axe; nicksches slates to roof with hammer and nails; fixes ridge tiles and torches them, i.e., secures them by filling interstices with mortar; in repairing roofs, rips out mulla from damaged slates with a metal tool known as a "rip," inserts new slates and secures them in position with chips of lead or slate.

tiler, see roof tiler.

vulcanite roofer, vulcanite rooding layer; lays hot vulcanite on flat roofs; as for sheet asphalt roofer.

Westwoodland slater, see grey slater.

571.—TILE LAYERS; MOSAIC WORKERS AND COMPOSITION FLOOR LAYERS.

cast worker (terrazzo); a terrazzo hand (q.v.) who casts terrazzo mosaic (made of stone cubes without set design) in wooden moulds; sometimes makes mould himself to required design, or takes mould from stock; coats mould with oil to prevent adhesion of cement; places coloured cubes of stone in bed of cement in mould; removes mosaic when set and rubs surface smooth with gritstone.

composition floor layer, composite decklayer; fireproof floor fitter, fitter or maker, floor layer, floor plasterer, jointless floor layer, polished floor layer, lay "composition" or mosaic floor; sets up one or more gauges on floor to be covered, indicating depth of composition which is to be laid thereon; spreads floor composition, which he sometimes also mixes, usually by adding water and stirring with a shovel; draws "straight-edge" rule, about 12 feet long, across surface to level it; "finishes" surface by adding another layer of composition and smoothing it with trowels, wooden floats or similar tools.

encaustic tile fitter; fixes encaustic tiles on walls, either with screws or by spreading cement on walls and setting tiles therein; cuts tiles to shape with hammer and chisel if necessary.

encaustic setter; a bricklayer (565) or plasterer (567) (q.v.) who sets encaustic tiles in position in a bed of cement.

faience and mosaic fitter, faience worker; fixes faience or mosaic tiles or panels with screws or in cement on

interiors or exteriors of buildings; see rough tiler, and mosaic worker.

fireproof floor fitter, layer or maker, floor layer, floor plasterer, see composition floor layer.

hearth maker, see tiler.

jointless floor layer, see composition floor layer.

marbles man; a mosaic worker (q.v.) who lays marble mosaic doors, etc.

mosaic cutter; cuts or breaks up variegated pieces of stone or glass in a workshop, with hammer or mallet, and chisel, sets out selected fragments of stone or glass as cut or broken; frequently gets pattern drawn to scale, on sheets of brown paper, and attaches it thereto with adhesive, to form mosaic panel in reverse.

mosaic fitter, mosaic setter; (i) (terrazzo worker) mixes cement and stone chips, constituting mosaic pattern, on floor and rolls it several times; before final rolling, satisfies himself that mosaic is laid to correct thickness and sprinkles a topping of stone chips in cement; sometimes also does work of polisher (q.v.); (ii) (designer, mosaic artist, etc.) cuts away wall or other surface with hammer and chisel if not previously properly prepared for mosaic panel; mixes cement and spreads it with trowel and float over surface; presses reverse side of mosaic panel (see mosaic cutter) upon it, wipes away surplus cement and when set, washes off brown paper; touches up face of design by filling in cement or rubbing with gritstone.

mosaicist, mosaic worker, mosaic pavement maker; venetian pavement maker; (i) mason's term for all workers in mosaic, including mosaic cutter, mosaic fitter, mosaic setter, polisher (q.v.); (ii) a tile layer (q.v.) laying or fixing mosaic tiles.

patent floor layer, see composition floor layer.

polisher (mosaic); rubs surface of mosaic floor after it has been laid by mosaic fitter (q.v.), with gritstone, to render it perfectly smooth and to polish it.

terrazzo hand, terrazzo worker; a mosaic worker (q.v.) working in terrazzo, i.e., ordinary pavement work as distinguished from picture or design work in mosaic; sometimes work of cast worker, mosaic fitter and polisher (q.v.).

terrazzo worker; cuts tiles to exact size to form tessellated pavement; usually done by tile manufacturer's works; may also lay and fix tiles.

tiler, tile fitter, tile layer; Acrob maker; fixes and sets tiles in cement on floors, hearths, walls, round ranges or grates, etc.; may be done by bricklayer (565) or plasterer (567); sometimes specifically designated according to place tiled, or tile laid, e.g., mosaic tile fitter, mosaic tile pavior, range tiler, tessellated tile fitter, wall tiler.

tile slabber; cements together tiles and glazed bricks to form hearths, kerbs, range surround, etc.

venetian pavement maker, see mosaicist.

wall tiler, see tiler; may also be done by bricklayer (565), especially where walls represent banded brick work.

572.—MASONS.

archer (colliery working); builds of stone and repairs arches of permanent ways in collieries; as for mason.

banker hand, hewer or mason; hardstone banker mason; cuts and if necessary, saws, blocks of stone at "banker," bench of heavy timbers, using heavy hammer or mallet and chisel, or saw, and sine template, which indicates required size of stone; gauges stone with calipers or other measuring tool; dresses, i.e., finishes, stones either on dressing machine or, more usually, by hand, using mallet or hammer and chisel.

builder mason, Scotch and Cornish term, see fitter.

sculpture mason, *see* monumental mason.

cheek and corner maker; a mason (q.v.) who shapes or gauges and dresses "cheeks" and corner stones.

chimney piece maker (stone), *see* mantelpiece maker.

curb maker (stone); a mason (q.v.) who makes stones of marble "curbs," or ledgers, for fireplaces.

dry waller, *dry fence waller*, *dry stone waller*; *fence waller*, *stone hagger*; a mason (q.v.) who builds "dry stone" walls, i.e., walls made of rough stone, without mortar.

dyker; builds, by hand with hammer, trowel and straight edge, i.e., long rule, stone portion of dyke or ditch usually of roughly shaped stones and sometimes without cement or mortar.

fence waller, *see* dry waller.

fixer, **fixer mason**; **builder mason** (Scotland and Cornwall); a mason (q.v.) who receives stone blocks already cut, shaped, and usually dressed by banker mason (q.v.); lays and fixes them in building with cement or stone mortar; instructs labourers (573) (q.v.) as to rigging pulleys, or blocks and falls, for lifting material; if further dressing required, dresses stone with mallet, or hammer, and chisels; in fixing, uses mallet and trowel, spirit level, rules and straight edges; does some distorting, i.e., lays bricks, cf. bricklayer (563).

granite settler; a mason (q.v.) who fixes granite blocks in buildings.

gravestone maker, *see* monumental mason.

hardstone banker mason, *see* banker mason.

haewy; term used in parts of Scotland for banker mason (q.v.).

knobbler; prepares and squares corners and edges of blocks of Kentish rag, i.e., Kentish sandstone, with hammer and chisels for use on buildings.

machine mason; a mason (q.v.) who works in mason's yard operating "cogger" or other machines for planing or dressing stone, with assistance of labourers (573) (q.v.) or by operating derrick or other lifting apparatus; planes stone to be machines on bed of machine; if stone needs raising drives wedge under it; operates clamping or other device to secure stone in place and to adjust cutting, planing, or dressing tools to required position; moves lever to switch on or off power-drive of machine, as required; sometimes grinds tools of machine by hand on a grindstone.

mantelpiece maker; **chimney piece maker (stone)**; a mason (q.v.) who cuts and makes mantelpieces of stone. **marble mason**; (i) cuts and shapes marble with mallet or hammer, and saw, cf. banker mason; finishes marble by rubbing it with rubbing stone, stone or marble on which he sprinkles water and sand as abraded; sometimes also lays blocks of marble in wall, pavement, etc.; cf. fixer; (ii) a monumental mason (q.v.) working in marble.

mason, **stone mason**; (i) cuts, shapes and dresses stone for use in building or as tombstones, monuments, etc.; or erects stones in buildings; usually either a banker mason or a fixer (q.v.); cf. machine mason, marble mason, etc.; sometimes specifically designated, e.g. mason in tin floors (tin mason); (ii) in shipyards, lays and concretes foundations for machinery; (iii) in foundries, engineering shops, etc., cuts, lays and fixes in cement foundations for furnaces, boilers, machinery, etc.

monumental mason, **monumental marble mason**; **sculpture mason**, **gravestone maker**, **toad maker**; cuts, with hammer, mallet and chisels, stone or marble for, and erects, monuments, tombstones, etc.; uses cutting lathe on occasion; may also carve simple designs and engrave inscriptions, cf. gravestone cutter (574).

rubble waller; a waller mason (q.v.) who constructs walls of undressed stone. **scutcher**; cuts stone or brick for mason's use with "scotch" or bricklayer's tool comprising flat blade set in handle at an angle; usually done by waller mason (q.v.).

stone ditcher, **stone fence**, **stone and fence waller**; builds stone boundary walls or "fences" of rubble (small stone) or broken flints, slabs, etc.

stone hagger, *see* dry waller.

stone masons tacker; a mason (q.v.) who fixes masonry blocks with mortar or artificial blocks, or with a layer of artificial stone while still plastic and before it has set.

tomb maker, *see* monumental mason. **waller**, **waller mason**, **walling mason**; wall mason; sets in position, stones of walls, bridges, docks, river banks, etc., and sees to their being well pointed and bonded; often also "scutches" his own stone, especially when using flints; cf. scutcher.

whinstone dyker; a mason (q.v.) who builds dykes or ditches of whinstone; cf. dyker.

573.—MASON'S LABOURERS.

mason's assistant, **mason's labourer**, **mason's tender**; **mason boy**, **mason carrier**, **shed labourer**, **stone rubber**; assists mason to lift and dress stone; makes and carries mortar; does various kinds of unskilled work; looks after tools; sometimes specifically designated, e.g. monumental mason's labourer.

mason boy, or **carrier**, *see* mason's assistant.

rubble dresser; prepares, i.e., breaks up with hammer or picks out suitable pieces of "rubble," i.e., pieces of undressed stone used for filling in; usually done by mason's labourer (q.v.).

sawyer's rubbing bed hand; **stone rubber**; a mason's labourer (q.v.) who rubs surface of sawn stone with a piece of harder stone, sand, and water to give it a smooth surface.

shed labourer, *see* mason's assistant. **stone rubber**; (i) *see* mason's assistant; (ii) *see* sawyer's rubbing bed hand.

574.—ARCHITECTURAL, MONUMENTAL CARVERS.

architectural sculptor, *see* stone carver.

architectural sculptor; a highly skilled stone carver (q.v.) who carves designs or figures, from designs furnished to him, for church decoration; sometimes also carves in wood, cf. ecclesiastical wood carver (585).

letter engraver, **stone engraver**; **letter cutter**; sketches lettering of inscription in pencil on stone, marble, etc.; cuts out letters with graving tools and chisels, and sometimes also points them with hand brushes and paints; where lettering is to be lead filled, recesses letters, i.e., cuts them more deeply; may also fill recessed letters with molten lead; when lead has cooled, planes off projections to leave smooth surface; sometimes specifically designated, e.g. marble engraver, monumental engraver, monumental letter engraver, monumental marble engraver, tombstone engraver. **foliage carver**; a stone carver (q.v.) who specializes on foliage designs.

gravestone cutter; a stone engraver (q.v.) who cuts inscriptions on gravestones.

letter cutter, *see* engraver. **marble sculptor**, *see* stone carver.

monumental sculptor; a stone carver (q.v.) who is sufficiently skilled to carve elaborate monuments, figures, etc.

sculptor's pointer; indicates, by means of special measuring instrument, called a "pointer," for guidance of sculptor or stone carver (q.v.)

where relief points are to appear in sculptured or carved design, and chips away, with hammer, or mallet, and chisels, superfluous stone, marble, etc., ready for sculptor or carver. **stone carver**; **architectural sculptor**, **marble sculptor**; cuts or carves, with special chisels and mallet, into a design prepared by architect, blocks of stone, sometimes roughly shaped for him by sculptor's pointer (q.v.).

575.—STONE CUTTERS AND DRESSERS.

apprentice settler, *see* sett maker's apprentice.

blocking dresser, *see* quarry mason.

burnishing stone maker, *see* cutter, burnishing stone.

cutting stone maker; cuts and smooths stones, weighing about 25 lb. for the game of "cutting," by hand, with chisels, hammer, measuring gauges and calipers.

cutter, **stone cutter**; cuts to shape and size by hand with hammer and chisel, or by machine saw (cf. sawyer), various kinds of stone, i.e., millstones, whinstones, tombstones, etc.; may also dress stone (cf. dresser).

cutter, **burnishing stone**; **burnishing stone maker**; uses a lapidary machine, fitted with foot, trestle, or handle, and with a saw, or whittler, for cutting square stones, also with a horizontal grinding wheel, usually platinum faced, for grinding surface of stone, holds stone against revolving wheel of machine, afterwards polishes stone by holding it against revolving buffing lathe fitted with wooden or hide leather wheel, also cuts, grinds, and rubs away waste stones for setting into brooches, rings, etc., by same methods.

cutter, **hons**, **oilstone** or **whinstone**; **benefice maker**; sets gauges and controls larer of machine which cuts or saws sand-stone of different grades of fineness and hardness; may also smooth by rubbing on sand table.

cutter, **sett**, *see* sett maker.

cutter, **trough**; cuts or works out cavity in a large block of stone to make drinking trough, using a special hammer, head of which is pointed at both ends; gauges correct dimensions of cavity with various measuring instruments.

dresser, **stone dresser**; **dresses**, i.e., gives required form and surface to articles of stone, by hand, using chisel, punch and hammer and rubbing with abrasive block, sand and water, or by power-driven clamping, planing and soiling machine, or by both. **dresser**, **chert** or **flint**; cleans flint with a pick before breaking and dresses according to quality.

dresser, **flag** or **paving squarer**, **stone squarer**; cuts or squares paving stones already chert to approximately required thickness by stone cutter (q.v.); squares them and dresses their face, i.e., removes irregularities, using mallet or hammer and chisels, rule, set square, measuring tapes, etc. **dresser**, **kerb**; roughs dresses granite, etc., in kerbs with chisel, punch and hand hammer (about 6 lb.); hatts down or finishes off surfaces required smooth with patent axe or pick, cf. kerbstone maker.

dresser, **millstone**; a dresser (q.v.) who also cuts grooves in grinding surfaces of millstones, and resharpsens them when worn; cf. stone-mill.

finer, *see* dresser.

finestman (emailed marble manufacturer); smooths marble, by holding it of revolving sanding table. **granite roll maker**, **granite roll truer**; cuts with special hammer, mallet and chisels and dresses granite rollers for paint making machine; trues up on polishing lathe. **grinder**, **stone grinder**; (i) sets gauges and cutting or grinding edges of machine which grinds face of stone (e.g. lithographic stone); places slab on bed of machine and controls

grinding by means of levers, (ii) pommers; throws or shovels broken stone into hopper or chute of grinding mills and removes pulverized stone.

grindstone maker; makes grindstone throughout, i.e., cuts, dresses, sounds, etc., with hand tools; nearly obsolete.

grindstone moulder; bores hole at centre, inserts and fixes, with cement or lead, steel axle in grindstone and mounts it in position for running.

grindstone rounder; dresses face of grindstone by hand with hammer, or mallet, and chisels; also cuts stone to required diameter and shape with head tools, using templates or moulds, cf. grindstone turner.

grindstone turner; forms grindstones of required diameter, by means of lathe, and cutting tool.

hammerer, see sett maker.

homestone maker, see cutter, bone.

kerbstone maker; both cuts (see cutter) and dresses (see dresser), polishing etc., by operating treadle, moving lever, pressing button, shifting small driving belt, etc.; sets gauges, cutting edges or dressing surfaces; fixes stone on bed at machine, cf. machine mason (572).

marble chimney piece maker; general term for workers engaged in cutting with hammer, mallet and chisels, or, by machine, and dressing marble chimney pieces.

marble turner; cuts marble in cylindrical form, etc. on lathe; sometimes specifically designated, e.g., monumental marble turner.

millstone builder, millstone maker; (i) cuts rough pieces of natural French burstone, by hand with hammer and chisels, into shaped blocks forming segments of a circle; places segments in position on a "base" on which are marked shape of circle and of segments using an adjustable template; after mass has been bound with hoop iron by blacksmith, may dress or finish stone and cut furrows on its surfaces by hand with hammer and chisel, cf. dresser, millstone; (ii) mixes, i.e., shovels, crushed burstone grit or emery grit with special cement and water; removes mould when mixture has hardened; may also dress bound stone as in (i).

mlager; sett finisher, settman finisher; a sett dresser (q.v.) who finishes "setts" roughly blocked out by sett maker, by chipping them with a sharp-pointed hammer, producing a flat paving stone (not stone flag), different from ordinary sett.

olistone maker; makes olistone, used for steel sharpening, by holding a piece of trolley rock or fire whitstone against a circular saw, to cut to shape; then holds cut piece of rock or stone against a "spinner," a small revolving padded iron disc, to polish it.

olistone maker, Turkey, see whetstone maker.

pommers, see grinder.

paving cutter; (i) see sett maker; (ii) a stone cutter (q.v.) shaping flag-stones with hammer and chisels.

pickler, see stone picker.

pitching maker; rough stone breaker; (i) makes pointed stones for haunches of new road; generally uses scabbling hammer, i.e., hammer with square ends, for dressing stone; cf. scabbler (572); (ii) makes rough rubble for pitching sides of embankments, culverts, etc.

polisher, stone; polisher; uses various abrasive powders and smoothing machine (jenny hand or spinner) to give polish to stone, e.g., lithographic stone, marble, etc.; may also

polish by hand on occasion; sometimes specifically designated, e.g., lithographic stone polisher, marble polisher.

polisher (enamelled marble); tender (enamelled marble); polishes enamelled surface of marble, after stoving, by rubbing it by hand with rotten stone.

pulpstones maker; a cutter and dresser (q.v.) who makes with hammer, mallet and chisel large mill stones for grinding wood into pulp for paper making.

quarry mason; blocking dresser; with hammer and chisel prepares stone to leave quarry, except such kinds as require dressing; works chiefly on beams, girders, blocks, coping, quoins, and other kinds of stone used in engineering constructional work.

random maker; cuts pieces of rock with pneumatic hammer, or with pick, hammer, and wedges, and shapes them into rough paving stones. "Random" sets, to any convenient size.

rough stone breaker, see pitching maker.

rubbing stone maker, rubbing brick maker; prepares a mixture of grit, stone and binding material, and moulds it to shape and use required for use in smoothing or cleaning surface of stone or brick.

rubbingstone rubber; trues up rubbing stones, used for producing smooth surfaces on stone, marble, etc., usually by rubbing them together.

setter (i.e. enamelled marble), see polisher (enamelled marble).

sander-at-saw; feeds with sand, and keeps wet with water to facilitate cutting, saw blades in stone cutting machine, usually while blades see working.

sawyer, stone sawyer; cuts stone with hand saw or operates machine saw.

sawyer (marble, enamelled marble); cuts marble with iron blades fed with sand and driven by hand or machinery; wire saws seldom used.

sawyer, swagge; one of two men who push barbed wheels, or formers, and swagge saw suspended over the piece of stone to be sawn.

scythestone maker; stone rubber; cuts and dresses, i.e., smooths and polishes, scythestones; in Flintshire chips stone by hand, and grinds it into shape by rubbing on hard slab; in other parts, sometimes works by machine.

seg maker, segment maker; cuts with hammer and chisels segments out of gritstone for building up grindstones.

sett maker; dresses, trims "setts" (stone paving blocks, generally of granite) to right size and shape for paving; generally done by street mason (579); (q.v.).

setter, see sett maker.

sett finisher, settman finisher, set mldger.

sett maker; block squarer, hammerer, knapper, knob maker, pointing cutter, sett cutter, settler, settman, squarer, stone squarer, wallstone dresser; cuts stone, granite, basalt, whinstone, into rough blocks with heavy hammer (shell, or maul) and then trims them into "setts," i.e., small blocks, of specific dimensions, for road making, with scabbling hammer (8-10 lb.) or with other hand hammers (tiffier or reel); does not use machines, except for blocking out rough cubes or jacks; sorts out his work at end of day for weighing and resawing; see also grinder; in a few quarries also does work of block cutter (572) (q.v.); cf. settman (572).

sett maker's apprentice; apprentice settler; assists sett maker (q.v.) generally and learns trade.

settman, see sett maker.

slate slider; cleans and levels, by filing, surface of slabs of slate for use in switchboard making.

squarer, block, see sett maker.

squarer, stone squarer; (i) see sett maker; (ii) see dresser, flag or paving, stone cleaver; drills holes with hand

drill on edges of blocks of stone, marble, etc., and inserts, and drives home with hammer, set wedges, thus forcing material apart.

stone drafter; stone marker; outlines from measurements, or with metal template or mould, shape of stone to be cut, using quarryman's black, usually done by foreman (561) (q.v.).

stone mchling, see mchling.

stoneman, miller's stoneman, stone-dagger; cuts furrows in grinding stones according to a formula with a "mill bill," a small tool like a basket; sometimes also assembles grinding stones, supervises their working, and makes any necessary adjustments in working.

stone marker, see stone drafter.

stone pestle and mortar maker; a cutter (q.v.) or stone machinist (q.v.), who, with hammer, mallet and chisels, or with sawing, dressing, planing, etc., machine, makes pestles and mortars and sticks of stone.

stone picker; picker; separates by hand, good from inferior stone; cf. picker (572).

stone planer; smooths surface of stone with plane, generally by coulter machine; see machinist.

stone rubber, see scythestone maker.

stone slate maker; cuts to required length and width, and if necessary, splits to required thickness, slabs of stone, "rooking stones," used in place of tiles or slates for roofing.

stone turner; works lathe for turning stone columns, balustrades, etc.

wallstone dresser, see sett maker.

whetstone maker; dresser (q.v.) who shapes and dresses whetstones with planing and smoothing machines after cutting.

576.—SLATE WORKERS AND SLATE MASONS.

boxer (enamelled slate); a slate mason (q.v.) who clamps enamelled slate sections of mantel-piece together with iron bars and bolts.

chimney piece maker (slate); a slate mason (q.v.) who cuts slate slabs, for manufacture of chimney pieces, with a circular machine saw, and fixes pieces together, in the works, with plaster.

cleaver, see splitter.

cutter; sorts rubble, i.e., odd lumps of slate and marble, taken from those pieces of sufficient size; cf. splitter.

cutter, slate cutter; sets gapes and cutting saw or knives of machine which cuts slates to various sizes with saw or knife; places slate slab on bed of machine; controls machine by means of levers; removes and stacks cut slates.

cutter, slate home; saws slate into "homes," for sharpening knives, etc., and smooths them on sand tables.

dresser, slate dresser; rubs surface and edges of slates or slate slabs by hand on sand tables to smooth them.

enamelled slate sander, finisher, slate finisher, see polisher.

footsman, slate footsman, footer; turnable bed; smooths slate by holding it on revolving sanding table, pushes heavy iron block by hand or by machine over sand table to level large flat table.

grinder, slate grinder, as for stone grinder (575).

machinist, slate machinist; slate mill worker; adjusts tools of machine for cutting, planing, sanding, drilling, and otherwise treating slate; switches on and off power-drive of machine; places slate slab on bed of machine; usually also grinds tools of machine on a grindstone or on an oilstone.

mason, slate mason, mechanic (slate slab factory); slate sink maker; (i) marks and prepares slabs of slate, for machine hands to plane cut and polish; finishes slabs to get perfect joints; drills, with hand or electric drills, holes in slabs intended for manufacture of tanks, to receive

nuts and bolts which fasten pieces together; or, fits together smaller articles of slate with plaster or with small metal fittings (up (ballast) fabric) placed inside slabs by machine, which he himself sets and operates; bores holes in slate on a boring machine; screws together requisite number of layers of slate; cuts holes in slate with hand saw, where pockets are to come; finally smooths and polishes surface with a special type of hand plane, dragged over surface with silver sand as an abrasive.

planar, slate planar; a slate machinist (q.v.) operating a slate planing machine; adjusts machine to suit various thicknesses of slate being worked.

polisher, slate polisher; emeryed slate sander, finisher, slate finisher; prepares slate for emerying, etc.; rubs surface with emery paper and sand paper, by hand; usually also does work of slate enamel (592) (q.v.).

polisher, writing slate; writing slate finisher; polishes surface of slate, either by hand or an revolving drum covered with emery cloth.

river, olog; local term for slate river (q.v.).

river, slate river; runs large masses of slate as quarried, at quarry, into rough slabs, with hammer and chisel ready for splitter (q.v.).

sawyer, slate sawyer; saws slates into slabs, (i) by using (for small slabs) ordinary toothed circular saw or a peached hand saw; (ii) by using (for large slabs) a circular saw set with steel rails on the periphery; sometimes specifically named, e.g., emeryed slate sawyer.

slabman, slab maker (quarry); a sawyer (q.v.) who cuts ends and sides of rough slabs, at quarry, with circular machine saw.

slate maker, see splitter.

talent mill cleaner; a labourer who cleans cuttings and slate rubbish from slate working machines.

slate mill worker, see machinist.

slate pencil maker, slate pencil worker; sets gauges and cutting tools in machine which forms pencils from slate or soapstone, when this is not done by machine setter (211) (q.v.); places slab of slate on bed of machine; controls machine by means of levers; removes pencils when cut to bias.

slate tank maker, see mason.

splitter, slate splitter; cleaver, slate maker; splits blocks, lumps or "clops" of slate into roofing slates or with chisels, or chisel-faced hammers of special shape, or by machine.

turntable hand, see footman.

writing slate finisher, see polisher, writing slate.

writing slate maker; a splitter (q.v.) who saws off rough edge of slate by circular saw; then splits slate by hand; may also smooth surface, cf. writing slate polisher.

677.—PLATELAYERS; RAILWAY UNDERMEN.

ballast and sand loader, ballast man, ballast train man (railway); an underman (q.v.) who is deputized with others, forming a small gang, to load trucks with ballast and sand, to travel with trucks and to shovel out ballast etc. to permanent way gangs along line; obsolete.

bank rider (railway); North East of England, an underman (q.v.) who rides tip truck full of coal or ballast, usually former, down inclines to dispose tips or to waiting ship and applies brake at bottom of incline; obsolete.

blocklayer, see platelayer (mines or quarries).

bridge tarring labourer (railway); an underman (q.v.) deputized to coat various parts of steel or wooden

bridges with protective covering of hot tar or mixture of hot tar and pitch; uses long handled tar brush; obsolete.

chairs (railway); an underman (q.v.) who places "chairs" in position on permanent way ready for laying rails; obsolete.

clay burner (railway); digs clay on bank of railway cutting or embankment, to harden clay for prevention of land slips; mixes crushed coal or pieces with clay and sets on fire; tends burning to ensure that it takes place evenly; obsolete; cf. clay burner (building) (561).

drafter, draughtman (railway); an underman (q.v.) who attends to drawing and repairs of drains on permanent way; obsolete.

electric track labourer (railways); an underman (q.v.) who works on maintenance or re-laying of track with live electric rail; obsolete.

fence loader (railways); an underman (q.v.) who loads fencing timber on trucks; obsolete.

ganger (railway); under control of district inspector (700) (q.v.), is in charge of a gang of men maintaining a length of permanent way, or renewing permanent way, or carrying out heavy earth works; responsibility includes seeing line is kept straight, that kays do not drop out, that space is allowed for expansion of metal; that rails are kept packed-up but not too high (engine fanned) but not too low (loosened) that drainage is effective; that boggles, banks, etc., are tidy; sometimes is drafted in charge of a small gang for incidental work in connection with above, as occasion demands, e.g. gang conveying ballast to other permanent way gangs; arranges duties of sections of gangs and sometimes, especially in small gangs, himself works with the gang; cf. foreman platelayer (561).

gang man, gangman; general terms for any undermen (q.v.) in any gang on permanent way.

leading man, flat (railways), see sub-ganger (railway); obsolete.

lengthman (railway); an underman (q.v.) in a gang engaged on maintenance of a specific section, i.e., length, of permanent way; obsolete.

lengthman, flat (railway), a sub-ganger (q.v.) in charge of gang engaged in maintenance work as distinct from re-laying; obsolete.

look-out man (railways); an underman (q.v.) who, by rote, is stationed near a gang of undermen working on permanent way, to warn them with horn or whistle of approaching trains; regulates pace of trains by signalling to drivers with coloured flags, duties normally performed by flagman (railway) (700) (q.v.).

maintenance man (railway); permanent way, labourer, permanent way man, (obsolete) railway labourer; an underman (q.v.) engaged on permanent way gang doing maintenance as distinct from relaying work; cf. relayer (permanent way).

packer (railway); an underman (q.v.) who packs ballast under and between railway sleepers to make foundation of the rails stable and level; obsolete.

packer, leading (railway); a sub-ganger (q.v.) in charge of a gang of packers (q.v.); obsolete.

permanent way man, permanent way labourer (railway), see maintenance man (railway).

platelayer, railway platelayer, see underman; obsolete.

platelayer (mines and quarries); (i) blocklayer; lays surface tramways and sometimes roadways; (ii) road layer, road setter; lays and keeps in repair rails for haulage system from working place to shaft.

platelayer, leading (railway), see sub-ganger (railway).

platelayer, road (tramway); rail layer (tramway); engaged on laying and maintenance of road tramway, keying and bolting rails and tie-bars in true level and alignment, laying and fitting switches at points, or removing and relaying sections as necessary, cf. underman.

rail layer (tramway), see platelayer, road (tramway).

railway labourer, see maintenance man (railway); obsolete.

relayer (permanent way); an underman (q.v.) engaged in relaying gang, (as distinct from maintenance gang, cf. maintenance man) mainly engaged in building permanent way, laying sleepers, metals, etc.; sometimes engaged by railway company on casual basis and ultimately transferred to maintenance gang on permanent basis, or is a permanent worker temporarily transferred into a gang doing relay work.

road layer, road setter, see platelayer (mines or quarries).

sawman (railway); one of a gang of undermen (see underman) who work on sewerage system of railway company; digs new trenches or opens old one; discards manholes and inspects condition of sewer; clears stoppages; obsolete.

sub-ganger (railway); leading platelayer, leading surface man, flat leading man (railways); assists ganger (railway) (q.v.) in supervising work of permanent way gang; takes charge of sections of gang and is responsible for section's jobs, where so deputized by ganger; or, where working directly under scrutiny of ganger, directs undermen and himself works with gang.

surfaceman (railway), see underman; obsolete.

surfaceman, leading (railway), see sub-ganger (railway).

tunnel repeller; an underman (q.v.) engaged on tunnel repairs; obsolete; cf. underground labourer (581).

underman (railways, not in signal box); platelayer, railway platelayer, (obsolete); surfaceman (railways); a worker in a permanent way gang supervised by ganger (railway) (q.v.).

In addition to supervising, duties include surfacing permanent way with fine ballast, laying and boring sleepers, bolting chairs to sleepers, laying and bolting sections of rails, laying and fitting switch levers at points, maintaining, by means of pick and shovel, level and alignment of permanent way bed, loading sand and ballast, by shovelling into trucks to provide ballast for other gangs using same, cleaning and repairing drains on permanent way, fencing, ditching and leading timber therefor, acting as flagman (700) or look-out man (q.v.) as occasion demands, or, newly engaged in a gang, as casual worker doing chiefly relay work, graduates to maintenance work where greater permanency is ensured.

678.—GAS AND WATER MAIN LAYERS.

cable and service layer (electrical); wire layer (electricity supply); (i) (cable laying) lays by hand, in prepared trench (often cement lined), various kinds of main electric cables, e.g., lengths of cable roughly bound together, single cable unwound from a drum, etc.; or, lays in trench pipes through which bound lengths of smaller cables are drawn by means of a long iron or wooden rod; (ii) (service laying) lays by hand in small prepared trench, ready for connection, single smaller cables for conveyance of current from main to consumer's premises; drills, or cuts with hammer and chisel holes through party walls for passage of cable; (iii) see cable hand.

cable hand; (i) cable and service layer, same's navy; carries out all excavation work required in laying electrical cable; (ii) assists cable and service layer (q.v.); (iii) in U.P.O. works in gang of men erecting on poles or laying underground cables for telephone or telegraph service; (iv) see cable hauler (571).

conduit layer; lays and repairs iron or earthenware conduits; runs molten lead, for iron conduits, or cement or composition, for earthenware conduits, into joints to make them watertight.

main layer; pipe layer; places pipes for gas and water mains end to end in prepared trenches in readiness for caulking; beds pipes in clay or cement and packs up with stones, etc., to obtain required alignment.

main layer (electricity supply); see cable and service layer (electrical).

main's navy; see cable hand.

pipe layer; see main layer.

pipe linesman, pipe ranger; lays gas or water pipes in trenches, dug by a laborer, under instructions from district foreman (561) (q.v.) or foreman pipe layer (561) (q.v.); places pipes end to end and makes joints; packs up pipes with clay, cement, stones, etc. to obtain required alignment; caulk joints by pouring in molten lead, when lead is set hammer it in joint with hammer and chisel; in repair work, breaks joints, removes broken section and relays and caulk joints of new section.

pipe tester (gas); tests section of gas main, after laying and caulking, by turning on gas and examining joints for leaks.

pipe tester (water); tests section of water main, after laying and caulking, filling section with water, and examining joints for leaks.

service layer (electricity); see cable and service layer.

service layer (gas); places lengths of service pipe, for conveyance of gas from main to consumer, and to end in prepared trench usually dug by laborer; paints joints with coat of red lead, winds yarn round thread of pipe, and screws one section of piping thus prepared into section already laid, to make joint; also cuts and threads pipes, if required, using trowel and thread-cutting disc and vice; sometimes also makes connections, in lead piping, from service pipe to meter, in consumer's premises.

service layer (water); places lengths of service pipes, conveying water from main to consumer, and to end in trenches dug by laborer or excavator (587) (q.v.); usually also joins pipes, either by "caulking," i.e., pouring in molten lead and hammering set lead, into joint with hammer and chisel, or, for earthenware pipes, by sliding joints with cement, using a trowel.

579.—PAVIORS AND STREET MASONS: CONCRETORS AND ASPHALTERS.

asphalter; (i) see asphalt layer; (ii) lays asphalt on floors, walls, roads, etc., or to form damp course of buildings, where required to keep out damp, using hand trowels and wooden floats to level and smooth surface.

asphalt layer, asphalt pavior; makes asphalt, which has been ground and heated in furnace, level over concrete base, consolidates by use of rammer, and finally irons to solidity with long handled hot irons.

block layer (wood); see pavior, wood.

caneawayman; see pavior.

cementor, ship cementor; mixes and lays cement, with trowel and float, in various parts of ship, such as galleys, forepeak, floorings, bilges, etc.; sometimes done by mason (574) (q.v.).

concrete layer, concretor; spreads concrete on road, floor or foundation of building, and levels it with shovel to obtain correct level; makes 'small pillars,' or "spots," of concrete here and there, and lays a long rule, "straight edge," or a long spirit level between spot and spot; where slight curve, or "camber," is required, uses a "camber" slip, a curved rule; sometimes done by mason (581) (q.v.).

concrete mixer; (i) mixes concrete, of water, sand, gravel, coke breeze, pebbles and cement, in correct proportions by hand with a shovel; (ii) is one of a gang who operate and feed a concrete mixing machine, shovelling ingredients into container of machine in correct proportions, setting machine in motion and emptying the container after mixing, by turning it over.

concretor, granolithite; a concrete layer (q.v.) who spreads concrete, composed of granite chips, cement and water, on road, floor, pavement, etc.; also smooths surface of granolithite concrete, after spreading, with a trowel; usually also makes own concrete by hand with a shovel.

dresser, stone and flag; see pavior, flag.

ferro-concretor; tips, pours, or shovels wet concrete, usually brought to him machine mixed, into wooden casings or forms, temporarily erected of round reinforcing-iron or steel rods and ties, where it is allowed to set.

flagger, see pavior, flag.

kerb layer, kerb settar; sets up a kerb, held in position by pegs at intervals, to mark line to which he is to work; sometimes spreads concrete with a shovel to serve as bed to kerbstones; lays kerbstones on this bed; spreads cement, with trowel, on ends etc. of kerbstones, for joints; pours liquid cement, "grout," into small hole left at top of joint to strengthen it; where necessary, e.g., curved foot-way, dresses kerbstones with hammer and chisel to make it fit its position.

pavior, street pavior; concrete-mason; lays paving stones, flagstones, bricks, etc., in a bed of mortar or cement, taking care that joints are broken, i.e., not continuous, and that level is correct and uniform; uses spirit levels, rules and straight edges; drives flagstones, etc., down into bed with a heavy wooden hammer, mallet or rammer; joints flagstones, etc., with mortar or cement; sometimes trims flagstones, etc., received dressed, e.g., street mason, to irregular shapes, as necessary.

pavior, flag; stone and flag pavior; flagger, stone and flag dresser; or for pavior.

pavior, sett; lays stone setts in concrete or mortar on previously prepared concrete bed; where setts are already trimmed and shaped, trims them, where necessary, to correct size and shape, to fit particular positions, with hammer and chisel; other operations as for pavior, street.

pavior, tar; tar layer; spreads evenly with shovel or fork mud metal (granite) and tar thrown down from carts on road surface; also spreads topping of chips and tar to be rolled in.

pavior, wood; block layer; one of a gang who lay wood blocks to form roadway surface, chopping blocks with small hand choppers to finish-off gutters, etc., and pouring tar over blocks, after laying, to allow permeation through cracks.

slab maker (chemical works); makes bottoms and ends of cells for electrolytic decomposition of salt, sets up framework of steel rods and wire in wooden mould or shuttering; mixes and pours in concrete; or for ferro-concretor.

street mason; works with pavior (q.v.) and performs necessary finishing or dressing operations with hammer and chisel to flagstones, paving stones, etc., before they are laid by pavior tar layer, see pavior, tar.

tramway layer, tramway repairer; a sett or road mason (q.v.) who repairs permanent way of tramways; sometimes done by tramway plate-layer (577) (q.v.).

580.—WELL, MINE-SINKERS, BORERS.

halder, haler (oil wells); operates power-driven baler or pump used for extracting water and oil from drill hole during drilling operations; erects, by hand, troughs or conveyors from drilled hole to containers or receiving tanks.

borer, artesian; artesian driller, artesian well borer, well borer, well driller; drills holes for wells with special machine drill, through impermeable strata, e.g., chalk, to permeable stratum, e.g., greensand; erects tackle, i.e., steel derrick, over spot where drilling operations are to take place; connects shafting from power drive of stationary engine to derrick, connects drilling or boring tools to sections of rods; as drilling proceeds, lengthens rods by bolting-on new sections; controls hand levers of mechanical drilling apparatus; uses various mechanical or hand-manipulated devices for hauling-up or lowering rods and drills; if necessary, inserts steel tubes in drilled hole, bolting various sections together as required; regulates power operating mechanical "shell tool," or sludge pump, for drawing-out debris during drilling.

borer, mine borer, mineral borer; makes trial boring to test probable mineral value of prospecting mine for mine sinking contractor; or for borer, artesian; sometimes makes observations during operation of bore during direction finding apparatus; cf. borer (564).

borer, oil well; see driller (oil wells).

borer, well; well driller; (i) see borer, artesian; (ii) see driller (oil well); (iii) see sinker, pump.

derrick man, derrick floor man (oil wells); works on deck of barge, fixing rigging, assisting driller, etc.; may also keep pump or haler in good repair.

driller, artesian; see borer, artesian.

driller (hrine wells); as for driller (oil wells); drilling often done by wellman (579) (q.v.).

driller (oil wells); oil well borer, well borer, well driller; operates machine drill to sink the borehole down to oil bearing rock; adjusts "jars," i.e., lengthens drill as boring proceeds; lowers pipe to line side of borehole where there is no danger of breaking down instructions of the driller in charge, who is responsible for drillings, derrick management, and power plant on alternate shifts.

driller, well; see borer, well.

runner; a driller (q.v.) or assistant to driller who operates the "runner" tackle for lifting rods for each fall of drill stem in boring operations.

sinker, mine sinker, pit sinker, shaft sinker; usually a miner (borer) (542) (554) (q.v.) who excavates earth and rock with pick, machine drill and blasting to sink pit shaft in mine; sometimes only directs operations of drilling and excavating.

sinker, artesian well; see borer, artesian.

sinker, pump; well sinker; well borer, well driller; digs out with pick and shovel, clay, gravel, etc., down to impermeable stratum, e.g., chalk to sink a shallow well for water drawing with winch and bucket, or for village pump, etc.; for artesian well sinking, cf. borer, artesian.

881.—CONTRACTORS' LABOURERS; NAVVIES.

aerial rope signalman; signals to man controlling aerial rope, to warn them to raise, lower, or despatch loads.

asphalter's labourer; conveys asphalt in pans or hoppers to asphalter (579) (q.v.) and sheds it on surface to be laid with asphalt; sometimes also strikes asphalt boiler and stirs boiling asphalt.

ballast crusher; shovels ballast into revolving pan of ballast crushing machine, controls by means of lever power-drive of machine, watches ballast in pan to see that it is crushed to required fineness, supplies pan, with a shovel, upon completion of crushing.

ballast crushing labourer; assists ballast crusher (q.v.) in filling and emptying pan of ballast crushing machine; wheels away crushed ballast to spot where it is being used, etc.

bank ranger (canal); bankman, bank fender; carries out necessary repairs, concreting, timbering, etc., to banks of canal or river, or to water-courses supply channels for tube locks, under instructions from bank walker (501) (q.v.).

bankman (canal); see bank ranger.

bankman (public works); skipper; releases and tips over contents of "skip" or tub, which tips to each side, used for transporting sand, stone, etc.

bankman, sinker's; removes earth or rock excavated by mine or well sinker, by shovelling into trucks or wheelbarrow from stage on which earth is thrown by sinker, or by emptying into trucks, buckets for tubs brought up by winding apparatus at top of shaft.

bank tender; see bank ranger (canal).

barrow runner; see wheeler.

beagle man; see segment torker.

canal bank labourer; canal worker; mixes concrete for repair of canal banks, and does the work where required, or, carries small piles into bottom and erects timber supports for canal bank, where made of timber; or, clears out and dredges canal as directed; does any other labouring work connected with maintenance of canal banks or channel or other canal works.

canal bank repairer; repairs earth-slips or other defects in canal banks as indicated by bank ranger (q.v.).

canal worker; see canal bank labourer.

cauldron man; see pot man.

cement gun operator; holds in position cement gun, worked by air pressure, which sprays liquid cement into cracks in brickwork or masonry, or sprays it against surface of building previously coated with metal lath, or against brickwork surface.

clay burner (building); a labourer who dips clay sub-soil from building foundations and burns it for use in garden paths and for general building purposes; mixes crushed coal or breeze and, spreading clay and breeze in layers, sets fire to whole; turns fire according to prevailing winds and adds more clay and breeze as necessary throughout day; cf. clay burner (railways) (387).

concrete machinist; tends and feeds with dry mixed ingredients, power driven concrete mixing machine; cf. concrete mixer (579).

crusher feeder; shovels stone, bricks, ballast, etc., into pan of crushing machine, as for ballast crusher.

cylinder sinker (bridge building); a miner (q.v.) who excavates earth inside cylinder or caisson, so sinking it for bridge foundations; usually works in compressed air chamber.

deep sinking labourer; navy or miner (q.v.) engaged in sinking deep holes or shafts.

drain layer; pipe layer, secondary pipe layer, service layer; lays drain pipes in trench dug by navvies (q.v.), taking care that pipes are laid at an

even gradient, and either straight or, if required, at proper angle; tests gradient by erecting "backs" of one or two levels, at intervals, and placing spirit level thereon, uses line and cord attached to pegs, which he drives into ground, to get proper alignment; sometimes also does work of pipe blower (q.v.).

drain pipe fitter; see pipe joiner (drainage).

electric cable laying labourer; assists cable and service layer (578) (q.v.).

excavator; a navvy (q.v.) who digs foundations of buildings, trenches for drains, gas mains, etc., and who assists in any blasting operations that may be necessary.

filler (public works); shovels excavated and other material into barrows, tubs, wagons, etc., for removal; sometimes also wheels barrows or pushes tubs, which run on a light railway, to place where material is to be dumped, empties them, and brings them back.

fire pot boy; gang boy; tends fire in brazier for use of gang of ballastmen or playblowers, and boils water for tea-making; keeps men supplied with drinking water.

flagger's labourer; assists flagger or street mason (579) (q.v.) by moving mortar or cement with shovel; lifting stones into position; ramming stones into bed, lining tools, etc.

gang boy; see fire pot boy.

granolithic labourer; assists in making of granolithic stone, an artificial stone made of crushed granite and cement; tends mixing machine, pours mixture into moulds; removes set slabs from moulds, etc.

grave digger; digs with pick, spade and shovel graves in cemetery or churchyard; fixes retaining walls of wooden boards and struts; lowers coffin by ropes into grave; fills grave with earth after burial ceremony.

highway labourer, highwayman, highway department labourer; see road labourer.

lamp post fitter; excavates and makes concrete foundation; erects and locates lamp posts in road construction, etc., ready for gas fitter to fit lamp and for service layer to connect with main; usually works under supervision of service layer.

layer-on; see stone layer.

leading man, leading labourer; leading hand of a gang of men, working under a ganger, and replacing him when he is absent; usually named according to the work done, e.g., leading ballast loader, leading roadman, etc.

masadamay, masadamiser; spreads macadam, etc., broken granite with a surface dressing of powdered granite, with shovel or fork; during steam rolling operations, sweeps water and cauded mud over surface of road metal.

mining sinker's labourer; does unskilled work, e.g., excavating, holding tools, or some sinking operations.

miner; does excavating under ground usually with hydraulic tools and blasting in construction of tunnels for railways, roads, sewers, canals, etc., or foundations of bridges, buildings, etc.; shoves up slides and places sections of steel lining; sometimes specifically designated, e.g., canal miner, land miner, public works miner, railway miner, saltatory miner, sewer miner, tunnel miner.

navvy; excavates soil for building foundations, railway tracks, roads, docks, canals, drains, etc., using pick and shovel, often does concreting and timbering work; sometimes specifically designated, e.g., canal navvy, excavator, road maker, trench digger.

navvy, slurry pond; works at pond or pit in which cement is mixed for use in concrete making; tips in cement from bags; controls flow of water from tap; mixes water and cement with long handled rake.

pavior's labourer; street mason's labourer; assists pavior (579) (q.v.) by mixing cement, moving slabs, etc., because of heavy labour, railway labourer; assists playblowers and packers on railroad construction and repair work by doing unskilled and heavy jobs such as shovelling, wheeling, and placing tubs in position, or assisting carpenters or masons, metal or other workers, in their construction work.

pile driver; operates pile driving machine which releases weight, raised by hand or mechanical power, and so hammers the pile home.

pila layer; guides piles, which are being by means of cranes, into pre-arranged position ready for pile driver (q.v.), using ropes attached to piles to guide them.

pipe joiner (drainage); drain pipe fitter; fits plain end of one pipe into socket of another, caulks joint with cement; passes special form of mallet pipe to connect any curved work may have found its way through joint into pipe.

pipe labourer (for contractor or undefined); see pipe track labourer.

pipe layer; see drain layer.

pipe track labourer; pipe labourer; breaks up surface, with sledge hammer and wedges, "cold chisels," or with pneumatic hammer; excavates trench for pipe track, with pick and shovel, removes excavated soil by wheelbarrow, etc.

pitch boiler; see pot man.

pitcher, stone patcher; a labourer who shovels stones from cart in heap on road ready for spender.

pond maker; a navvy (q.v.) who digs out ponds, and lines the sides and bottoms with concrete to make them waterproof.

pot man; cauldron man, pitch boiler, for boiler beds and ladles out pitch or tar into pits, and lines inside of fire under pot or cauldron, breaks up and replenishes cauldron with solid pitch; stirs cauldron with long iron rod.

potman, asphalt; a pot man (q.v.) heating and distributing asphalt.

powder roaster man; stokes fire which heats asphalt powder in preparation for laying, and stirs powder to distribute heat; sometimes also fills pans, etc., with roasted powder and takes it to asphalt layers (579) (q.v.).

public works labourer; does unskilled work in construction of roads, bridges, railways, canals, etc.

peg mill feeder (public works); feeds and tends peg mill, in which stone, brick, rubble, etc., is ground and mixed for manufacture of mortar, concrete, etc.

railway labourer; see permanent way labourer.

rammerman; fills in and rams down earth and other material on drainage excavations, etc.; usually done by navvy, as part of excavation or trench digging work.

river labourer (water works); does any labouring work connected with maintenance of repair banks or channel of river supplying waterworks; cf. canal bank labourer.

road cleaner; sweeps and cleans up road before tar spraying, and after road making or resurfacing is completed; cf. road cleaner (590).

road contractor (not employer); contracts with a local authority to keep in repair a certain length of road with materials supplied by them.

road labourer; see navvy.

road labourer, highwayman, highway department labourer; (1) employed by local authority in upkeep of roads e.g., sweeping, hedging and ditching, repairing ball in macadam surface, etc., (2) see stone labourer.

road maker, as for navvy.

road man; see road labourer.

rock breaker (road making); (i) breaks rock for road-making into small pieces with special hand hammer; (ii) throws or shovels pieces of rock into pan of crushing machine and shovels out crushed rock, cf. ballast crusher.

rope runner (public works); hoists loads of building material to scaffolding, with rope running over a pulley, sanitary pipe layer, see drain layer.

scarifier; attends to scarifying apparatus, i.e., apparatus for tearing up the worn surface of a road, on a steam roller; directs steam-roller driver and maintains teeth of scarifier at correct adjustment by hand with spanner or with manipulating bolts.

sea defence worker; maintains in repair sea walls, groynes, embankments, etc. with stone, rubble, or brickwork; usually a mason (572) or bricklayer (566) (q.v.).

sea groyne labourer; sea wall labourer; assists sea defence worker (q.v.) in building, maintenance of sea groyne, etc., by doing unskilled work, e.g., carrying or wheeling blocks of stone and timber, mixing cement, etc.

segment carker; hogsme man; fills in space between drain or pipe section and loose soil with a slurry of cement and sand.

service layer, see drain layer.

sett beater; a rammerman (q.v.) who rams down setts with a heavy hand-rammer, one or two handled beam of wood, into bed of slurry.

sizer, see picker.

skipper, see bankman.

sougher; (i) a dialect term for a labourer who constructs, by means of pick and shovel, ditches, drains or adits for draining a mine; (ii) in Ireland, a general term for a ditcher.

steam roller labourer; steam roller sweeper; spreads tar, tar mixture, or other similar substance, with brush, over stone or chinker to be rolled.

stone breaker, stone cracker, stone knapper, stone zapper; sets by roadside and breaks stones, usually flints, with hand hammer into sizes suitable for road meeting; is usually an old man.

stone crusher (road making), see for crusher feeder.

stone layer, stone spreader, stone strewer; for-car; spreads stones evenly on surface of road, with shovel or fork, prior to rolling.

street labourer; road labourer; general labourer waiting on pavioir (579) or road maker (q.v.); does heavy unskilled work in street or road making.

street mason's labourer, see pavioir's labourer.

surface labourer, surface man; maintains, by means of pick and shovel, level and alignment of road surfaces or of tramway permanent way beds, as shown on pegs placed in position by surveyor; cf. surface-man (railways) (577).

tar boiler (road spraying), see pot-man.

tar man, tar mixer; a tar pavioir's labourer (q.v.) who breaks up pitch or bitumen, by hand with hammer and iron spike, and mixes it with tar, in right proportion to be used on road surfaces; assists pot man (q.v.) and may sometimes stoke boiler; carries buckets of hot tar when and where required.

tar pavioir's labourer; assists tar pavioir (579) (q.v.); generally engaged in filling of barrows with tar paving mixture and wheeling it barrows to tar pavioir; may assist in spreading mixture and help in rolling laid surface.

tar sprayer; (i) holds perforated rose of mechanical sprayer, which sprays tar over surface of road; (ii) works handle of pump which forces tar through pipe or tube through tube to rose of sprayer.

timberman; puts up timber supports and crossbeams in trenches; does all timber work required on public works, etc.

trench digger, see for navvy.

trench labourer; does unskilled work in excavation and boarding up of trenches.

trenchman; responsible for excavation of trenches for pipes, mains, drainage and other purposes.

underground labourer; (i) excavates soil or rock to make tunnels, sewers, etc., or removes soil or rock excavated by miner (q.v.) and assists miner generally, (ii) a labourer employed underground in cleaning sewers and the like.

water track labourer; keeps water switches on sewage works and sewage farms, and drainage ditches, clear and free from obstructions.

well borer's labourer, well driller's helper, well sinker's labourer; assists well sinker (580) (q.v.); hauls out excavated material with windlass, rope, and bucket; lowers timber, tools, etc., as required.

wheeler; barrow runner; a navvy or labourer (q.v.) who wheels away and deposits soil.

works and ways department labourer; does unskilled work, such as trench digging, shovelling, wheeling material, loading and unloading supplies, tools, etc., in work of construction, road building, etc.

588.—OTHER SKILLED WORKERS.

brass letter fixer; fixes brass letters to glass, with adhesive mastic preparation, or to other bases with screws, etc.

builder's fitter; general term applied to gas fitters, hot water fitters, stove fitters or constructional iron fitters, etc., employed in building industry.

builder's mechanist; general term applied to carpenters, painters, bricklayers, masons, plasterers, and other skilled men in building trade, as distinguished from respective labourers.

building steam cleaner, see steam brush cleaner.

chimney shaft builder; a steepeljack or a bricklayer (565) (q.v.) who builds chimney shafts of factories.

chimney shaft feller; cuts out two or three courses of bricks on one side of chimney shaft with a hammer and chisel; either pulls chimney down, on side thus weakened, by attaching cable to chimney and pulling thereon with winch or otherwise, or puts wooden blocks into spaces from which bricks have been removed so that blocks are burnt out; work usually done by steepeljack (q.v.).

church tower climber, see steepeljack.

expanded metal fixer; fixes, with screws or nails, expanded metal, a perforated metal sheet used as key or bond to re-inforce concrete as base for plaster work; sometimes a carpenter (474) (q.v.), or, in firms having much of this work, a specialist on this operation.

ferro-concretor's iron worker; fixes iron or steel rods used to re-inforce concrete, either by driving them into ground with a hammer, or, by fixing them into position with struts as erection proceeds, vertically or horizontally as required; bends rods in wire if necessary, fixes "cross ties," i.e., short rods at right angles to main rods, and secures them, where they cross, with pieces of wire; cuts rods with hack saw and twists wire with pliers as necessary.

float; obtains smooth surface on floors, walls, etc., by running over moist cement, plaster, etc., and pushing over it a float (special kind of wooden crown).

house breaker, house ripper; pulls down and removes buildings, using crowbar, hammer and pick.

rigger; fixes up travelling cradles on the fronts, etc., of buildings for use by the steam brush cleaners, painters (592) (q.v.), etc.

steam brush cleaner; building steam cleaner; applies a solution to the brick or stonework of the outside of a building to be cleaned, and when still wet, directs a jet of steam on it and scrubs with wire brush to clean off the dirt, etc.

steel letter fixer, as for brass letter fixer (q.v.).

steepeljack, steepel peter; church tower climber; builds or repairs steeples, chimneys, shafts, etc.; erects his own ladders, and scaffolding, usually able to perform work as bricklayer (566), carpenter and joiner (474), slater and tiler (570), plasterer (567), plumber (582), painter (592), glazier (486), electrician (597) (q.v.).

thatcher, house thatcher; constructs a thick roof covering of straw or rushes, by fastening combed bundles of straw or rushes to the roof laths with straw or rush rope; trims edges with special knife.

589.—OTHER WORKERS.

bottom man; a steepeljack's improver, see (588), who assists and watches the top skilled men, thus gaining knowledge, experience and confidence.

frame scaffolder; erects frame scaffolding for new building by bolting together previously prepared steel tubes, timber, deals, scantlings, posts, etc.

plane house loader, plane house man; assists slater (q.v.) or stone planer (576 or 575) (q.v.) in planning machine, carries and moves about with levers and rollers, or travelling chains sleds of slate or stone.

rope runner (building); a lad who fastens rope to trucks waiting to be moved or shunted on light tramway after filling or unloading on excavation work.

scraper (stone quarries and works); removes stone clippings from mason's bunker or planning machine.

slater's labourer; assists slater (570) (q.v.) to sort slates; carries them in chumps up scaffolding to roof and ladders chumps elowwise against roof timbers conveniently to hand of slater; mixes mortar or cement for slater and assists him generally.

slate works labourer; general term for an unskilled worker who assists sawyers and machinists (576) (q.v.) in moving slate and assists generally in slate cutting and dressing mills; includes plane house loader, plane house man.

stone carrier (stone works); a stone works labourer (q.v.) who carries or assists in moving stone, by means of rollers, levers and chain lifting tackle.

stone weigher; weighs and records the weight of blocks of stone received in the stone cutting and dressing mills.

stone works labourer, as for slate works labourer.

tool boy, tool man; collects tools, and takes to forge for repair, e.g., picks.

winchman; turns handle of a hand winch to raise builder's material up to required level on scaffolding.

ORDER XVIII.—PAINTERS AND DECORATORS (NOT POTTERY).

591.—FOREMAN AND OVER-LOOKERS.

charge hand, see painter's foreman, colourman; pours certain quantities of dry colours from drums into other containers; adds turpentine, oil, white lead, etc., and stirs to obtain required consistency; puts with this mixture on a specially prepared board, called an approval board, which is shown to architect; usually also painter's foreman (q.v.).

painter's foreman, painter's nod (slang); charge hand; is in charge of painters (592) (q.v.), on a job, and is responsible for efficient carrying-on of work; usually also a colourman (q.v.). Indicates, with chalk or otherwise, dividing line between colours, marks-out work on door panels, etc.; sometimes also keeps time records of painters; engages or discharges painters, usually in consultation with general foreman (591) (q.v.). If work is employed.

592.—PAINTERS AND DECORATORS (House, Ship or General).

aerograph; machine painter, machine sprayer; directs spray of paint from aerograph on to part of building to be painted; sometimes uses a stencil, which he tucks on to wall and over which he sprays paint to produce a pattern. blacker; applies black paint to iron stoves, rough pipes, etc., with a brush, or, dipper, and a bucket of paint; hedges work on a frame, and manipulating a lever to lower or to withdraw frame as necessary; sometimes mixes his own colour; brushes black or other "black" in dry form, into containers, pouring in oil and stirring with a wooden stick. brush hand; (in N. England). see painter, (in Lower and S. of England). cf. painter's labourer (590).

colour mixer; a painter (q.v.) engaged part time in mixing paint for painters under direction of painter's foreman (591) (q.v.); cf. colourman (591).

decorator; a highly-skilled painter (q.v.) who also does gilding, silvering, stencil work, or delicate panel painting work; sometimes also does paper hanging, in doing silvering or gilding, applies gold size to surface to be gilded or silvered with a lead brush; cuts gold or silver leaf into small pieces by hand on special leather pad; picks it up with brush or knife, and applies it to surface to be covered; sometimes applies gold leaf in large pieces by hand pressure upon paper or interleaving upon which gold leaf is attached; or, dapples work by hand, with a brush, to obtain uniform surface on gold or silver work; sometimes specifically designated, e.g., church decorator, house decorator, yacht decorator.

distemperer; a painter or rough painter (q.v.) who applies distemper with special distempers and studding brushes to walls and ceilings.

enamelled slate blacker-in; applies black enamel or varnish to smoothed and cut slate with a hand brush; or, directs spray of enamel on to surface of work from a hand sprayer connected with a container from which enamel is forced by air pressure.

enameller; a painter (q.v.) who uses enamel (not stored) instead of paint, for better class of interior painting; sometimes specifically designated, e.g., furniture enameller, wood enameller.

figdier; a decorator (q.v.) employed full time on gilding-house decorations, etc.; may also gild by applying ready-made gilt paint with a brush.

grainer; (i) (the doves and trunks) a grainer and marbler (q.v.) who specialises in decorating tin boxes and trunks to resemble wood; may in some cases print decorations on surface with hand roller; (ii) see grainer and marbler.

graiser and marbler, imitator of wood and marble; grainer; paints wood, stone, iron, etc., to imitate grain of wood, or veining of marble; in graining, paints surface with flat colour, uses steel comb, pieces of rag or cotton wool, and his own fingers to give appearance of graining and of knots; in marbling, applies various colours to stone or other surfaces with brushes.

inquerer (not metal), as for enamel.

lacquerer, cold; applies coat of lacquer to cold metallic surfaces, usually brass, by dipping articles in a bath of specially prepared lacquer with a brush, or, for large articles, by spraying lacquer on; also articles made of dry; cf. hot lacquerer (591).

liner (house and weighing machines); paints gold or coloured lines free-hand on beams of scales, etc., with fine brush.

linear, cabinet case; a painter (q.v.) who paints lines of colour as decoration round outlines of cabinet or cases, using fine camel hair brush and straight edge or rules if necessary; cf. cabinet case liner (592).

liner, machine; paints lines, free-hand with fine brush, on machinery in engineering shop.

linoleum sprayer, see aerograph.

point dipper; coats parts of thorough machines or other articles with paint by dipping them in tanks of paint; may first prepare parts for dipping by sandpapering.

painter; (i) house painter, brush hand (N. England only); general term for anyone who paints by hand with a brush, woodwork, ironwork, plaster, or stone of interior or exterior of houses or other buildings; also applies varnish or enamel where required; often scrapes off old paint, unless done by scraper or by painter's labourer (592) (q.v.), or removes old paint by applying caustic preparation with a brush; often also prepares work for painting by rubbing down with glass paper and by applying special preparation to knots in woodwork; sometimes specifically designated, e.g., wood painter, hull painter; (ii) paints other articles of any kind except vehicles (593); sometimes specifically designated, e.g., bridge painter, drum painter, furniture painter, gas meter painter, machine painter, meter case painter, oil and paint and decorator, shoe painter, shell painter, ship painter, sign painter.

painter, engine; a painter (q.v.) who paints iron parts of engines when completed and in position.

painter, house, see painter.

painter, machine; (i) a painter q.v. who paints cast frame work of engines and machines; (ii) see aerograph.

painter, cold; a rough painter (q.v.) who covers large surfaces, usually ironwork, with a rough protective coating of oxide of iron with a brush. painter, rough; paints railings, rough ironwork, etc.; applies primary coats of paint to work which will afterwards have final coats applied by painter (q.v.); sometimes does whitewashing and distempers.

slate enameller; enamels slate by hand, with a brush, either in plain colours or in imitation marble wood designs; in imitating marble uses various colours; in imitating wood uses graining combs and fine fingers or pieces of cotton wool to obtain graining effect; dries by stoving, i.e., placing enamelled slate in drying ovens for specified time.

stenciller; paints patterns and decorations with a brush, stencil on wall and applying paint with brush, using a stippling action; usually marks a chalk line on wall to which he works; sometimes cuts stencils by hand with a knife from patterns supplied to him.

three brush hand; one who can undertake plumbing, painting, and glazing; term frequently employed in country districts.

593.—PAINTERS (Vehicles).

bodier-in, see brush hand.

body finisher; enamels and varnishes body of aeromobiles, mail cars, etc.; sometimes also paints on decorative lines, with a fine brush, but this is more usually done by liner (q.v.).

brush hand; bodier-in (perambulators, etc.); fills inequalities, cracks, etc., in woodwork of carriages, perambulators, rolling stock or other vehicles with plaster of Paris preparation, using a putty knife; paints on first coat of colour, and, when colour is dry, rubs it down with pumice powder or pumice stone and water to obtain even surface in readiness for body finisher (q.v.).

chassis finisher; applies final coats of paint or polish, by hand with a brush, to finished frame of self-propelled road vehicles; sometimes also does fine lining of liner.

colourman painter (tram cars); mixes, matches and prepares oil paints for use in painting tram cars; is generally also a coach painter (rolling stock) (q.v.).

decorator; paints interior and exterior of railway carriages, tram cars, etc., and ornaments them with decorative linings by hand, with a fine brush; sometimes covers ceilings and/or other interior surfaces with "linoleum" or other wall paper; ornaments interior with decorative transfers applied by hand; paints lines and panels.

dipper; (i) rule down with pumice stone and paper, glass paper, etc., work done by filler-up (595) (q.v.), to give smooth surface to panel work in preparation for varnishing; (ii) applies intermediate dead "coats of paint" to surfaces of tram cars or railway coaches, and flattens as above. figdier; paints surfaces to be gilded with quick-drying varnish; cuts gold leaf into required lines or shapes with knife on small pad; lays leaf on varnish by hand using a knife and stippling brush; covers applied leaf with coating of waterproof varnish with a brush.

gold liner (cycles); or for liner.

grainer; paints vehicles, applying coat of paint of one colour over another colour; with steel comb, rage, and his fingers, imitates grain of woodwork, producing appearance of polished hardwood; cf. grainer and marbler (592).

laster, see stenciller.

liner, colour liner (cycles), fine liner (perambulators), liner and finisher (carriages, etc.); streper (perambulators); paints ornamental lines, free-hand with fine brush in gold and other coloured paint on cycles, carriages, perambulators, tram cars, railway carriages, etc.; cf. gold liner (cycles).

painter (vehicles); vehicle painter; a general term covering painters of all types of vehicles; sometimes specifically designated, e.g., cart painter, chassis painter, coach painter, perambulator painter.

painter, baby car, see painter, perambulator.

painter, beechnette, as for painter, perambulator.

painter, both chair, as for painter, perambulator.

painter, body; car painter (rolling stock), see painter, coach (rolling stock).

painter, carriage; (i) see painter, coach (rolling stock); (ii) see painter, coach (private carriage).

painter, cart; cart painter; applies paint to cart and vans; may also mix own paints, i.e., pour dry colours into small vessel, adding oils, white lead, etc., and mixing to required consistency; does not paint to such fine degree of finish as coach painter (private carriages) (q.v.).

painter, chassis; applies first coat of paint or enamel to chassis, frame, wheels, etc., of self-propelled road vehicles by means of spraying; or, applies it by hand with a brush. painter, coach (private carriages, etc.); carriage painter; mixes dry colours, oils, etc., to right consistency for paint and, for final coats, matches paint with coach upholstery, etc.; glass-papers coach or carriage body

as required and applies successive coats of paint, enamel and/or varnish, with a brush, until desired effect is obtained.

painter, coach (rolling stock): coach body painter; body painter, car painter, carriage painter, railway carriage painter, railway coach painter; applies final coat or coats of paint to bodies of railway coaches or carriages with brush, and varnishes them after last coat of paint is on.

painter, inside (railway carriages): a painter (vehicles) (q.v.) who specialises in painting inside walls and ceilings of railway rolling stock; cf. coach painter (rolling stock).

painter, mailcart, see painter, perambulator.

painter, outside (railway carriages): a painter (vehicles) (q.v.) who specialises in painting outside of railway carriages; cf. coach painter (rolling stock).

painter, perambulator: baby car painter, mailcart painter; general term for body finishers, brush hands, line liners, and spring painters (q.v.).

painter, railway carriage: railway coach painter, *see painter, coach (rolling stock).*

painter, spring: paints and varnishes springs and undercarriage of perambulators, mailcars, etc., by hand with a brush.

painter, van, see painter, cart.

painter, vehicle, see painter (vehicles).

painter, wagon (rolling stock): paints wood and metal parts of railway wagons with brush by hand.

painter, wheel chair, as for painter, perambulator.

painter, wheel: (i) paints wheels of carriages, cycles, motor cars, etc., often in two or more colours, or adding a line of some distinctive colour; (ii) (rolling stock) paints and oils railway wheels and axles for prevention of rust during transit and storage.

painter, wheelwright's, as for painter (vehicles).

stenciller (rolling stock): letterer; places stencils on surface of rolling stock and paints over stencils by hand with a brush, using a stippling action to reproduce figures, letters, notices, etc.

striper (perambulators, etc.), see liner.
varnisher: covers bodies of motor cars, railway coaches, carriages, etc., after they have been painted, with coating of mastic or copal varnish, with hand brush and sash tool; in rolling stock, also varnishes ironwork of undercarriage or bogie.

594.—SIGN WRITERS.

decorator, ornamental decorator, see ornamental painter.

letterer, see writer, letter writer.

painter, advertisement: paints advertisements by hand, using fine brushes and oil paint, on advertisement boards and hoardings, either painting advertising designs containing lettering, or painting advertisements consisting entirely of lettering; usually work from a given plan or from smaller designs; sometimes also does work of sign writer (q.v.) or of poster artist.

painter, advertisement drop curtain: paints advertisements on canvas ground, enlarging them from small designs, for attaching to drop curtain of a theatre.

painter, blind: applies paint to window and shop blinds by hand with a brush; sometimes paints firm's name, etc., thereon with a brush, cf. sign writer, or by stencilling.

painter, glass: glass writer, (i) a sign writer (q.v.) who specialises in painting signs, written notices, designs, etc., on glass, with fine camel hair brushes; (ii) (for commonest class of work) paints signs, notices, designs, etc., on glass by aerographing process using stencils.

painter, ornamental; decorator, ornamental decorator: paints elaborate decorations, and fixes composition mountings.

painter, sign; a sign writer (q.v.) who specialises in sign painting.

writer, fascia; a sign writer (q.v.) who specialises in lettering fascia boards.

writer, glass, see painter, glass.

writer, letter writer; letterer; a sign writer (q.v.) who specialises in lettering various objects, e.g., finished bodies of railway coaches, doors, fittings or shell of ships, notice boards.

writer, ornamental; a sign writer (q.v.) who specialises in ornamental lettering as distinct from plain lettering.

writer, poster; a sign writer (q.v.) who paints prices, descriptions of goods, etc., by hand on paper or cloth for posters and signs.

writer, sign; paints letters and/or signs on posters, fascia boards of shops, glass tablets, blinds, public house sign boards according to his individual skill; his special method of painting depends upon branch of work upon which engaged, but usually chalks-in letters or designs and paints in finished letters, etc., by hand with fine brush; uses also gold leaf or gilt paint if necessary, applying former on an admirals base such as gold else or conglair after cutting lead to required shape; sometimes specifically designated, e.g., glass painter, sign painter, letter writer.

writer, title; a sign writer (q.v.) who writes titles and sub-titles in film production; often also designs artistic borders and ground work for title cards which are photographed on film.

writer to the trade; a sign writer working on his own account, who does all kinds of writing for firms too small to employ whole-time writer themselves.

writer, wire blind; a sign writer (q.v.) who specialises in sign-writing on wire blinds.

595.—PAPERHANGERS.

paper hanger; covers walls, ceilings, etc., with wallpaper, by estimating best method of application, cutting paper into proper lengths, brushing back of each length with paste, fitting over appropriate space on wall, etc., stretching, smoothing with brush and cloth, trimming top and bottom edges when necessary.

598.—OTHER SKILLED WORKERS.

barrier pipe stainer; stains bowl and stem of pipe, by hand, with cotton wool soaked in mixture of methylated spirits and aniline dye.

polisher's stainer; a stainer (q.v.) who puts dull stain on white wood as a base for polish.

stainer, wood stainer, wood dyer; (i) colours wood by dipping it in stain and setting it to dry; (ii) paints stain on wood to bring out grain or to imitate wood of another kind.

599.—OTHER WORKERS.

brush hand; (in London and S. England) *see painter's labourer.* In N. of England usage, in sense of painter, cf. brush hand (1922).

ceiling washer, as for painter's labourer.

chipper, chipper and scraper, chipper and sander; sander, scraper, chips and scrapes (old), paint, rust, or "scale" off any kind of ironwork (ships' plating, gaskets, etc.) in preparation for painting or re-painting, using a pneumatic tool, a small chipping hammer, or other hand tool.

coach painter's labourer; fills in blemishes or crevices of vehicle bodies with stopping of putty or special preparation, applies primer or first coat of paint, and, when dry, rubs down with pumice stone and water to make even surface for final coats of paint.

doper; applies dope (special water-proofing composition) by hand, with a brush, to fabric of awnings to tighten it, to render it airtight and watertight, and to reduce friction.

engine barrel paperer; applies filling (first rough coat of paint) by hand, with a brush, to castings, which have not been machined, and rubs surface down with glass paper to produce smooth surface for finishing coat.

filler, filler-in, filler-up; wood filler, wood filler-up; fills in grain of wood by rubbing in special composition, in preparation for polishing or painting, to smooth surface of wood, or, lays on first series of "primers" (ground-work paint).

filler-up (coaches), see rubber.
frame cleaner; cleans frames of self-propelled road vehicles; sand-papers or cleanses surfaces of rest and roughness prior to painting, polishing, or enamelling.

golf ball spotter; paints red spot or other coloured mark on painted golf ball with brush and paint.

lead labourer; a painter's labourer (q.v.) who applies coats of lead paint to woodwork and fills in cracks, etc.

lime washer, as for painter's labourer.

painter, bitumastic; applies anti-corrosive bitumen or bitumastic solution to any kind of ironwork, with a long-handled tar brush.

painter, golf ball; (i) paints finished golf balls, painting in a white paint and rolling it between palms of hands until it is evenly coated; (ii) places golf ball in special paint spraying machine; switches on or off driving power of machine; fills brush with white paint; removes painted balls when dry.

painter, pattern maker's; pattern scrubber; paints or varnishes patterns (i.e., patterns, usually wooden, of sections of machines used by engineers) by hand, with a brush.

painter, patch, var painter; tarrer; applies tar, with brush, to wooden buildings, (fences, etc., or to sides, top, and bottom of coal bunkers on ship; cf. tarrer (591).

painter, tin (tin bases); sprayer; sprays paint, with spraying apparatus, on finished tin boxes, containers, etc.

painter, tube; paints finished iron and steel tubes with brush or spray.

painter's labourer, painter's assistant; brush hand; cleans brushes, stirr paint, carries and sets up ladders, etc., and lays scaffold boards on scaffold or on rust, old paint, etc., and assists painter (592) (q.v.) generally; sometimes does low grade painting work under supervision of painter; washes walls, ceilings, etc., with lime, and puts on first "rough" ready for white-washing; strips off old wallpaper from walls, using water and stripping knife or scraping tool.

painter's rubber, see rubber-down.

pattern varnisher, see painter, pattern maker's.

pontoon sealer; a chipper q.v. who stands on a pontoon moored alongside a vessel and scrapes lower parts of hull therefrom; cf. ship scaler.

red leader; a painter's assistant (q.v.) who scales, scrapes, and applies first coat of paint (red lead) to surface to be painted (e.g., to interior and exterior of ship's hull); sometimes also applies anti-fouling composition to ship's bottom.

rubber, rubber-down; filler-up (coaches), painter's rubber; removes roughness from surface on woodwork of railway coach, tramcar, etc., with glasspaper, pumice stone or powder, etc., and applies priming and primary coats of paint, rubbing

down when each coat is dry, in readiness for painting; may also apply coat of battens, paint, of frame cleaner, flatter (503).

scaler, see *chipper*; cf. *scaler* (502).
scraper (for painter); cf. *see* *chipper*; (ii) scribes old paint with blow lamp, and scrapes it off with a tool; often done by painter (502) (q.v.).

ship scaler, ship scraper, chipper (q.v.) who cleans planks of a ship, inside and outside, in preparation for re-painting; or who scrapes ship's bottom, in a dry dock or in a slip way, to detach barnacles, seaweed, etc., using hammer and chisel, files and sometimes a shave hook, a small hand scraping tool.

ship painter's assistant, ship painter's labourer, as for painter's labourer.

size; applies a coat of size or similar substance to wood work, plaster walls, paper, etc., to render surface less absorbent for painting or varnishing.

sprayer (tin boxes, etc.), see *painter*, *size*.

stopper (sides); applies a coating of stopping paste with putty knife to provide a smooth foundation on sides for paint.

tanner, see *painter*, *pitch*.
varnisher; applies varnish (a solution of resins in oil or spirit) with brush or spray to painted, stained, or enameled surface of wooden or metal articles, e.g., furniture, in order to give a polish and a hard protective covering, sometimes specifically designated, e.g., handle varnisher, road varnisher (vehicle), stock varnisher (gun), wire mattress varnisher; often also done by painter (502) (q.v.) cf. *varnisher* (vehicle) (503), *varnisher* (gun) (549).

varnishing machine feeder; feeds rollers of varnishing machine with tinplates; removes varnished plates in racks to press.

whitener; washes ceilings, strips paper, and otherwise prepares surfaces for painters and paperhangers.

whitener, whitening-up, moulding whitener (furniture); coats lengths of wood moulding with a mixture of whitening and size by hand or by machine.

whitewasher; whitewashes walls, ceilings, etc.

wood filler, wood filler-up, see filler.

ORDER XIX.—WORKERS IN OTHER MATERIALS.

Sub-Order 1.—Workers in Rubber, Vulcanite, Ebonite.

602.—MIXERS, SPREADERS AND MOULDERS.

balata belt coverer; a balata solutioner q.v. spreading balata on one side of fabric used for belting.
base builder, see *tyre base builder*.
bottle maker; a moulder q.v. engaged only in moulding bottles from uncured rubber; cf. *hot water bottle maker* (508).

case maker; builds-up or for tyre maker (pneumatic), inner fabric only, of pneumatic tyres.

cementator, card cloth; cloth cementer (card clothing); a spreader q.v., who covers cloth for textile card clothing with a thin layer of rubber, and so cements two or more layers of cloth together.

coverer, rubber (marginal bandage); a spreader q.v. who covers surgical bandages with rubber.
dough and solution maker; india rubber mixer (best), mixer (wet), rubber mixer (wet), solution maker, solution mixer, wet rubber mixer; receives dry uncured rubber from mixer (dry) q.v. and feeds it to mixing machine; adds a solvent to form paste ready for spreading and vulcanising; operates machine by hand levers.

dry rubber man; dry mixer, india rubber mixer (dry), rubber mixer (dry), feeds by shovelling, etc., and operates, by hand levers, rubber mixer and warming machine previous to wet mixing (see *dough and solution maker*); adds stock chemical powders while rubber is being mixed, to strengthen, fill, and colour it, ebonite former, see *former*.

ebonite maker; ebonite worker, fibre worker, hard rubber worker, hard rubber worker, vulcanite mixer, vulcanite rubber maker; general term for any worker engaged in any process of making articles from ebonite or vulcanite, before vulcanisation; includes ebonite maker-up, ebonite mixer, ebonite moulder q.v. ebonite maker-up; (i) cuts uncured ebonite sheets with hand knife or scissors and builds-up, on mandrel, articles which cannot be made by former or moulder (ebonite) q.v.; if necessary solutions sheets together with special solution; (ii) see moulder ebonite.

ebonite worker; see *ebonite maker*; cf. *ebonite worker* (503).

extruder, see *former*.
fibre worker, see *ebonite maker*.
former, forcing machine driver; extruder, special machine for sheet; (i) feeds sack, sprayer, by hand, forcing machine or squitter, which forces dry uncured rubber through dies, to make tubes, hose, cable insulating rubber, and other articles; sometimes specifically designated, e.g., inner tube maker; (ii) makes articles of "reclaimed" rubber (i.e., old, used rubber) by forcing process, as in (i) above; (iii) ebonite former; makes articles of ebonite (a preparation of rubber) from ebonite "dough," by forcing process, as in (i) above.

hard rubber maker, hard rubber worker, see *ebonite maker*.
heel maker, india rubber heel maker, a moulder q.v. engaged in moulding rubber soles and heels.

mixer, dry; rubber mixer (dry), india rubber mixer (dry), see *dry rubber mixer*.
mixer, ebonite; a dry rubber man q.v. who shovels or feeds from chute ebonite mixture (a preparation of rubber) to a pair of heavy rollers; repeats operation until whole mass is well mixed; operates machine and regulates roller pressure by hand levers.

mixer (wet), india rubber mixer (wet), rubber mixer (wet), see *dough and solution maker*.

moulder, rubber moulder, india rubber moulder; india rubber presser, india rubber presser, presser, pressman; moulder or presser uncured rubber, or rubber mixture or dough, in steam or hydraulic press, which gives it required shape; this moulder, placed in press, receives paste by hand lever and removes moulds; sometimes specifically designated, e.g., gutta percha moulder, heel pad and sole moulder, rubber heel moulder, ebonite; ebonite maker-up; runs small pieces of ebonite dough into moulds to shape article before vulcanising, and places moulded ebonite into vulcanising press.

moulder, golf ball cover; heats a rod of gutta percha in boiling water to soften it, cuts off exact amount required; places it in mould, places top on mould (which is made in two halves), and puts mould in press.

moulder (rubber stamp making), vulcaniser and moulder; moulds rubber dough into type matrix, sets up by vulcanising press, then vulcanises stamp when set; cf. *vulcaniser* (503).
moulder, tyre; cycle tyre moulder, india rubber tyre moulder, motor tyre moulder; one of a gang, usually three or four men, who mould and vulcanise tyres from tyre mud or tyre finisher q.v.; places tyre mounted on wheel shaped core, or, for corded

tyres, specially mounted by air bag filler q.v. in mould, removes mould to vulcanisation pan and press, secures pan cover with bolts, regulates cores supplying steam to pan, operates lever controlling press and removes moulded and vulcanised tyre.
presser, india-rubber presser, rubber presser, see *moulder*; sometimes specifically designated, e.g., heel presser.

presser, golf balls; places mould containing tyre halves, covers and core in a steam-heated press, which is operated so as to close covers and mould their outer surface to specific design.

presser, hot; (i) a moulder q.v. using a steam press; (ii) a press vulcaniser (503) q.v. moulding and vulcanising in a steam press.

pressman, india rubber pressman, rubber pressman, see *moulder*.

profiler, see *spreader*.

roller coverer (tyres), see *tyre base builder*.

sheet maker; a spreader q.v. making sheeting waterproof; cf. *sheet maker* (505).

sole maker, rubber, see *heel pad and sole maker*.

solutioner, balata; operates a machine which spreads balata solution on fabric for making engine belts; duties as for spreader q.v.

solution maker, solution mixer, see *dough and solution maker*.

solution moulder; takes pieces balata (a substance resembling rubber) and solvent in mechanical mixer; starts and stops machine by means of levers; withdraws solution when mixing process is complete by opening outlet valve.

spreading machine attendant, see *former*.

spreader, rubber spreader, india rubber spreader; profiler, water-proofer; operates spreading machine, by which prepared rubber dough is spread on outer surface of canvas, and is then subjected to heat on steam-heated tables of machine; sees that unrolling of cloth or canvas, spreading of rubber dough, and re-rolling of material after spreading, proceeds evenly and correctly; sometimes specifically designated, e.g., cord clothing rubber spreader.

tile maker, rubber (moulding); a moulder q.v. who makes floor tiles from uncured rubber.

tube band; is in charge of machine extruding uncured rubber for tyre treads; operates levers, etc., to adjust roller pressure and to start and stop machine; directs warmer (extruding), feeder (extruding) (503) q.v.; cf. *former*.

tube maker, tubing machine hand, india rubber tubing maker, a former q.v. making rubber tubes by "forcing" or extruding process; sometimes specifically designated, e.g., inner tube maker, motor tube maker, inner tube maker.

tube maker, inner; (i) winds rubber sheeting cut by cutter (pneumatic tubes) (509) q.v. tightly round a shaping mandrel ready for tube wrapper (509) q.v.; joins up ends with solution and vulcanising; (ii) see *former*; (iii) is capable of performing all work of inner tube making as done by cutter (pneumatic tubes) (509), inner (i), tube maker, tube wrapper (509), vulcaniser, steam (503), etc., q.v. and is usually engaged in one or more operations.

tube maker, motor; an inner tube maker q.v. making inner tubes for motor car tyres.

tyre base builder; base builder, roller coverer (tyres); rolls vulcanite in layers, which is tacked into the grooved surface of a steel rim, which is basis of a solid rubber tyre for motor buses or lorries.

tyre maker (pneumatic), india rubber tyre maker (pneumatic), rubber tyre maker (pneumatic); builds up foundation of tyre cover by hand or machine, wrapping layers of rubber coated canvas, or alternate layers of

canvases and raw rubber, on a wheel-shaped core, and pressing layers together with hand rollers, see case-maker; forms beading with special roller or by pushing tyre edge against mechanically-driven roller; makes rubber tread with hand roller, ready for tyre moulder *q.v.*; when not done by tyre finisher (608) *q.v.*; uses special canvases for cord tyres; *cf.* case maker.

tyre maker (solid), india rubber tyre maker (solid); rubber tyre maker (solid); general term for any worker engaged in manufacture of solid tyres by any process, usually by squaring, or forcing process; includes former, tyre hoop builder, tyre moulder, tyre wiper, vulcanite maker, vulcanite rubber maker, *see* ebomite maker, waterproof, *see* spreader, wet rubber man, *see* dough and solution maker.

603—VULCANISERS.

cure man, *curer*, *see* vulcaniser.

endoring stamp maker, *see* vulcaniser (endoring stamp).

pressman, steam, *see* vulcaniser, press.

vulcaniser (endoring stamp); endoring stamp maker; presses special curer position over compressor's set-up type to make endoring stamp mould; dries mould on hot plate, fills with plastic rubber and vulcanises as for vulcaniser, press.

vulcaniser, cold; cure man, *curer* (cold); (i) vulcanises thin rubber articles by dipping them into disulphide of carbon, or other vulcanising agent; (ii) superheats machine which vulcanises special kinds of waterproof cloth by passing it over rollers running in trough of vulcanising liquid; guides cloth to rollers; operates starting and stopping levers; replenishes troughs.

vulcaniser, ebomite; a press vulcaniser or a steam vulcaniser *q.v.* engaged in vulcanising ebomite.

vulcaniser, hot air; cure man, *curer* (hot air); feeds material to be vulcanised to feeding roller in hot-air chamber; closes chamber door and operates hand lever, causing material to pass slowly over rollers in chamber; feeds vulcanised material so it issues from chamber on to receiving roller outside.

vulcaniser, press; cure man, *curer* (press); steam pressure; a steam vulcaniser *q.v.* who puts rubber articles in a mould; places iron plate on top and inserts between hollow steam-heated plates in a vulcanising press.

605—OTHER SKILLED WORKERS.

air ball maker, *see* balloon maker.

air bed painter, air cushion painter; covers air beds or cushions with decorative paint, using a brush or spray.

air bed coverer, air bed maker, air cushion maker, airproof goods maker; makes air beds, air cushions, lifebelts, etc.; cuts out rubber sheet to pattern, skivers, beats together and solutions seams; may also cover rubber by solution-treating fabric cloth and pressing it on; in small firms, often does work of air bed infuser (609) *q.v.*

armworker, hose armworker; specialises grip winder; operates hose-armworking machine, which strengthens rubber hose pipe, including "spindles," a patent hose, by coiling wire round it;

feeds hose from drum and wire from reel, to machine, and pulls levers actuating coiling mechanism; watches to see that there is no breakage of wire.

asbestos lining maker; makes up steam ionising rings, from rubber-coated asbestos cloth, by rolling it round rubber core, cold-pressing to shape in a mould under a power press, and then cutting into rings by machine.

balata belt finisher; trims belt edges with knife by hand, and stamps trade mark or name on that surface which is covered with balata by balata belt coverer (602) *q.v.*

balata belt maker; feeds bands of balata covered fabric, between rollers, which press them together, to make machine belting; usually also performs work of balata belt finisher and balata belt coverer (602) *q.v.*

ball blower; inserts hollow needle in vulcanised ball at spot where piece of unvulcanised rubber is attached to the inside; forces compressed air through hollow needle, thus inflating ball; withdraws needle and seals puncture with piece of unvulcanised rubber.

ball maker, rubber ball maker; makes balls by cutting out four segments of calendered sheet rubber; applies a piece of rubber composed without any sulphur in it (to avoid vulcanisation) to the inside of one of the segments; joins the four segments together with solution roughly in shape of a ball, enclosing a pinch of ammonium carbonate; places ball in mould which is heated with steam, thus vulcanised, the rubber being pressed into shape of mould by the steam freed from the ammonium carbonate on decomposition by heat; often acts as ball blower *q.v.*

balloon maker, toy balloon maker; air ball maker; (i) punches out very thin rubber sheet into sections; (ii) beats the sections together edge of pieces by a small power-driven hammer; places it in a dye vat; vulcanises by dipping in disulphide of carbon; inflates it to test it; (iii) dips glass or varnished wooden mould in growth of rubber dissolved in naphtha until mould is evenly and thinly coated with rubber; vulcanises rubber by dipping in disulphide of carbon; strips balloon off mould and inflates it to test it.

band maker, *see* elastic band maker.

belting maker, india rubber belting maker, rubber belting maker; folds sheet canvas and uncured rubber ready cut into thickness and width required for belt, and fastens layers with solution ready to be vulcanised.

billiard table cushion maker, *see* cushion maker, cushion stuffer (billiard tables).

block cutter (tent, tarpaulin, etc.); cuts, from rubber or compressed fibre, designs or lettering on the more simple blocks used by brander; work sometimes done by printer.

block maker, brake block maker; (i) cuts thick calendered rubber sheets into brake blocks, using hand knife, and vulcanises them in a hydraulic press, or for vulcaniser, press (603); (ii) cuts and shapes brake blocks of leather, rubber, or vulcanite, pressing material against circular saw wheel, which he switches on and off as required.

boot and shoe maker (rubber); solutions together, on aluminium, wood, or iron last, parts of boots and shoes, pressing joints with hand roller and finishing over with brush dipped in liquid sulphide.

borer (wind instrument, ebomite); bores out hollow barrel of wind instrument made of ebomite, to gauge; as for roaster (496).

brail, mouthpiece cutter, *see* vulcanite cutter (pipe).

brail mouthpiece turner (vulcanite), *see* mouthpiece turner (pipes).

calenderer, calender hand, calender man, india rubber calenderer, rubber calenderer; *sheeter*, passes rubber mixture, or dough, through calender machine having three or four pairs of steam-heated rollers to produce rubber sheets of any desired thickness, with or without a backing of canvas; where, as in some tyre-making firms, work is sub-divided, directs work of second hand, warmer-up, feeder-up (rubber calendering) (609) *q.v.*, and himself operates machine by switches, levers, etc., and regulates roller pressure by adjusting screws, etc.

calenderer, block; a calenderer *q.v.* who rolls rubber dough into sheets of exceptional thickness for rubber block cutting.

card measuring measurer, card measurer (textile machinery); cloth measurer; (i) measures rubber, coated cloth by hand before passing to card teeth setiers (225) *q.v.*; (ii) measures "fillets" (long strips) of rubber card clothing made by card setiers (225) *q.v.*

case turner (fountain pens), *see* turner, fountain pen case.

casement, india rubber casement, rubber casement; rubber solutioner, rubber solutioner, measurer (waterproof goods), solutioner, solutionist; sticks seams and joints of rubber goods together with solution by hand, with finger or brush, afterwards pressing seams with a hand roller on a work-table.

clacker (rubber); cuts out rubber upper for sole and canvas and canvas upper for rubber boots or shoes; either cuts with hand knife and template, or by placing shaped cutter upon number of calendered sheets of rubber or rubberised canvas beneath power press worked by hand-lever or foot treadle.

cloth doubler; passes two or more thicknesses of rubber-coated cloth, made by card clothing rubber spreader (402) *q.v.* through rollers to stick them together.

cloth measurer (textile machinery), *see* card clothing measurer.

collar cutter; places in position, in power press, layers of rubberised composition sheets for men's collars, or cotton interlining, and, manipulating clutch, cuts inner and outer collar shapes; cutting knives in machine as necessary.

collar maker (rubber); a general term covering workers, as distinct from collar cutter *q.v.*, employed on making men's collars out of special rubberised material; includes seamer, sewing machinist (419) *q.v.*, resuperposer (rubber stamps), sinker; sets up matrices of letters, etc., into which rubber dough is pressed to make rubber stamps.

coverer; cuts uncured rubber into lengths, by hand, using a knife; rolls rubber by hand over metal article, such as bit, and vulcanises as for vulcaniser press (603).

cover repairer, *see* tyre repairer.

cushion maker, cushion stuffer (billiard tables); billiard table cushion maker; (i) receives rubber of various lengths and thickness, and beats to square, rubber, seamed equally throughout; assembles lengths to approximately correct dimensions and cuts, by hand, to exact length and shape required, taking care to cut angles correctly; cements lengths of rubber together; (ii) as for block maker *q.v.*

dental rubber finisher; rolls into thin sheets between steam-heated mechanically driven rollers of small calender machine dental rubber used in making dental plates; as for calenderer.

dental rubber maker, *see* masticator hand (dental rubber).

digestor, *see* reclaimer.

elobite and vulcanite worker, *see* elobite turner.

elobite finisher; vulcanite finisher; fits up and polishes on rotating mop articles made of elobite or vulcanite, e.g., fountain pen barrels, hair combs, cyclic accessories, etc.

elobite turner; elobite and vulcanite worker; hard rubber turner, vulcanite turner; shapes upon a lathe, articles of elobite after vulcanisation; *as for* turner (585).

elobite worker; hard rubber worker; general term for any person working in elobite or vulcanite, e.g., elobite maker (582), elobite finisher, elobite turner (585).

elastic band maker; elastic rubber winder; band maker; (i) winds calendered rubber sheet compactly into block form, or round an open manifold until required thickness is obtained; vulcanises it, and cuts it into bands, with knifed lathe, to required gauge;

(ii) a forcer (592) *q.v.* who makes rubber tubing and cuts it into sections; *anagrus* packing maker; *see* rubber packing maker; *cf.* asbestos packing maker (398).

examiner; examines visually, finished articles to see that there are no defects and passes or rejects accordingly.

examiner, golf ball; examines golf balls after each stage in process of manufacture; tests for weight, size, resistance to compression, etc., by placing in a simple testing machine; also makes visual inspection; rejects defective balls.

feed maker; grooves and shapes elobite rods into fountain pen feeds on hand lever operated lathe.

fire turner, *as for* elobite turner.

finisher; (i) general term for any worker applying finishing touches to any rubber goods, e.g., ball painting; (ii) in elobite trade, plane, beroin, etc., elobite articles to give final finish; (iii) moulded goods, cuts off rough edges where rubber has over-run mould.

flexible gas holder maker; a hose maker *q.v.* making flexible gas holders and tubes.

flexible pipe and tube maker, *see* hose maker.

fountain pen fitter; assembles parts of fountain pens, and sees that cap fits barrel.

fountain pen maker; general term for any person engaged in manufacture of fountain pens, includes fountain pen fitter, fountain pen case turner *q.v.*

fountain pen polisher; polishes cap barrel and feed section of fountain pens, on buff or mop polisher.

fountain pen turner, *see* turner, fountain pen case.

garment maker, rubber; waterproof garment maker; commonly used in sense of waterproof garment sticker *q.v.* but may be used in sense of needle hand or finisher of waterproof garment maker (419) *q.v.*, or in general sense, for any person engaged in any process of making waterproof clothing.

golf ball hand winder; winds elastic rubber tape, by hand, tightly round centre of golf ball until it is evenly covered and ready for machine-winding into finished core.

golf ball maker, golf ball worker; general terms for any worker who performs one or more operations in golf ball manufacture, moulds core of golf ball in a press, vulcanises it by steam in a hydraulic press, winds rubber tape round core, places it in a shuttle, and winds elastic thread round it by machine from a bobbin; adds shell; finishes off by vulcanising; paints by rubbing with paint; binds palm of hand; *see* golf ball hand winder, machine winder, mould filler; mould opener; moulder (592), presser (592); press vulcaniser (593); golf ball painter (599).

golf ball machine winder; receives core from hand winder and places in shuttle of machine, which winds elastic rubber thread by machine (hand or power - driven) tightly round centre which is hand wound, until it is required size for core, golf ball mould filler; places core between two half-covers, and places the whole in mould which is hended to golf ball mould opener.

golf ball mould opener; opens mould when taken out of press, and removes golf ball, now complete with outer cover.

grinder, india rubber grinder, rubber grinder, waste rubber grinder; grinds pieces of waste rubber through a mill or rollers, to be ground into powder, ready for mixing with fresh raw rubber for manufacture of low grade products.

gutta percha worker, *see* rubber worker.

hard rubber turner, *see* elobite turner.

hard rubber worker, *see* elobite worker.

heeler (wood instruments); shapes holes for notes and stops in wind instruments made of elobite or *as for* heeler (495).

hose maker; flexible pipe and tube maker, pipe maker; (i) makes hose by winding spirally long strips of calendered rubber on a chain covered mandrel; solutions edges and presses them together; wraps round with thin cotton cloth or canvas to hold joints firmly, during vulcanisation; (ii) a forcer (592) *q.v.* who makes hose by forcing, or extruding process; sometimes wraps first a strand tube with rubberised canvas while still on mandrel, and again extrudes a layer of rubber over canvas; finally wraps thin cotton cloth or canvas round to exclude air between layers and to hold firmly during vulcanisation; sometimes further fits in a vacuum, e.g., vacuum brake hose maker.

hose maker, embedded; a hose maker *q.v.* who winds wire round a hose by machine (see armature), and then wraps further layers of rubber sheet and canvas.

hose maker, suction, *as for* hose maker, embedded.

hot water bottle maker; cuts, with hand knife or scissors, unwarped rubber sheets to pattern and solutions edges together, pressing with hand roller to form body of bottle; similarly cuts and fits bottle neck; may vulcanise in steam chamber or pass to steam vulcanisation (58).

insulating material maker; (i) mixes, kneads, rolls, and cuts up a composition, varying considerably as to ingredients, of rubber-like consistency into shape suitable for manufacture into electrical insulators; (ii) cuts insulating tape in strips from pure rubber cut sheet (unvulcanised), from various textures spread sheet, or from a composition of gutta-percha, *see* (i) above.

lathe hand; general term for any person working at a lathe, e.g., elobite turner, washer cutter (595) *q.v.*

masticator, rubber masticator; feeds by hand, corrugated rollers of masticating machine with pure rubber, to be pulped for surgical appliances, dental purposes, etc.; absorbs or otherwise removes pulped rubber from delivery tray; operates machine by hand levers.

masticator hand (dental rubber); dental rubber maker; a masticator *q.v.* employed only on making rubber for dental purposes.

mat maker, india rubber mat maker, rubber mat maker; a press rubber canvas (599) *q.v.* who, to shape, by hand, lengths of rubber sheets, lays one on top of another to obtain required thickness and solutions layers together; places mat in mould and press vulcanises it; sometimes

punches holes in it, *as for* mat puncher (599) *q.v.*, after vulcanisation, to form rubber.

mechanical rubber worker; stamps out of calendered rubber or rubber dough by means of a press, rubber articles used in engines and machinery, e.g., dies, plugs, valves.

mill operator, *see* warmer up.

motor tread filler, *see* tyre finisher.

moulder tyre head fitter, *see* tyre wirer.

moulder (rubber stamp making); mounds vulcanised rubber stamp in wooden or metal frame, ready for use; cuts stamp to size with scissors and affixes with adhesive, first beating metal mould.

mouthpiece bander (pipes); softens vulcanite mouthpiece of tobacco pipe in gas jet, bends it to shape by hand, and harries it in cold water.

mouthpiece driller (pipes); bores hole through vulcanite tobacco pipe mouthpiece with a power-driven drill.

mouthpiece fitter (elobite), *see* mouthpiece turner.

mouthpiece polisher (pipes); polishes vulcanite mouthpieces of tobacco pipes, by hand, on a revolving felt mop.

mouthpiece turner (pipes); draws mouthpiece turner (vulcanite), mouthpiece fitter (elobite); turns vulcanite tobacco pipe mouthpiece on a lathe, and fits them into bowls of tobacco pipes.

opener, an elobite turner *q.v.* who opens or enlarges the orifice of fountain pens to receive nib and feed.

oxidiser (linoleum making); attends machines oxidising linseed oil from raw oil to stored cake state; works pumps, *as for* pump driver (595) to govern flow of oil from tanks to trays for storing; regulates, by valves, heat of storing chamber; loads and unloads stove with trays.

pipe maker, *see* hose maker.

presser, belt; a pressman or moulder (592) *q.v.* who presses and then vulcanises flexible belts.

reclaiming, rubber; digester; feeds old rubber articles, which have been sorted by kind of rubber and cut up into pieces, into a grinding mill, to be ground to powder or small pieces; boils powdered waste rubber in boilers with alkalis, acids, and sulphides to render it to a working vat, dries it, and rolls it into sheets.

roller; general term covering workers using hand rollers, e.g., tyre maker (pneumatic) (592), waterproof garment sticker (593), ground sheet maker (599) *q.v.*

roller, rubber (textile machinery); rubber roller maker; wraps sheet rubber round metal rollers for use in textile machinery; vulcanises it *as for* vulcaniser, press (593) *q.v.*; may also smooth on a lathe or *for* roller turner (594) *q.v.* of roller canvas (tyred) (595).

roller, rubber (vulcanised); makes vulcanised rubber roller level and smooth, by pressing emery wheel against roller, as it rotates in a lathe; sometimes lubes by hand lever.

roller, rubber (surgical); india rubber hand, surgical hand; (i) a rubber goods maker *q.v.* making surgical and other appliances of india-rubber, (ii) fits together parts of rubber surgical appliances, e.g., metal or bone part of rubber syringe to bulb.

rubber drawer, *see* tubing drawer.

rubber moulder, rubber goods worker; solutions and joins up edges of pieces of unwarped rubber sheet or of covered fabric already cut to shape, which are then vulcanised by cancer (593) *q.v.*; sometimes specifically designated according to goods produced, e.g., first-class clothing maker, football bladder maker, geyser maker, hot water bottle maker, oil sheet maker, sleeping bag maker, tobacco pouch maker, water bed maker.

rubber mill hand, works in mill room as a general utility man, and masticator, rubber mixer (599), forcer (592), calender *q.v.*

rubber packing maker; engine packer; makes rubber packing and painting material of rubber, usually by rolling material round a mandrel and by cutting the tube thus formed into rings.

rubber piecer (card clothing); card clothing rubber piecer; joins strips of rubber with solution, or by pressing them together prior to vulcanizing, generally also beads or otherwise finishes edges with shaving knife, in preparation of rubber bases for textile card clothing.

rubber roller maker, see roller maker.

rubber slipper maker, or for boot and shoe maker (rubber).

rubber stamp maker, india rubber stamp maker; makes rubber stamps, by pressing rubber into moulds, squirting rubber dough into matrix or die cut up by compositor *q.v.*

rubber stamper; stamps pieces of uncured rubber into sole and heel pad shapes, on stamping machine; fixes dies in top half of machine, positions rubber thereunder, and operates lever actuating the stamp.

rubber tread maker, see tyre finisher.

rubber worker (aeroplane), see solutionist (aeroplane).

rubber worker, india rubber worker; gutta percha worker; general terms for any worker engaged in manufacture of rubber goods.

sawyer (rod); cuts up vulcanite rods into specified lengths for use in manufacture of penholders, etc., by pressing rod against circular saw which he actuates by hand lever.

screw stopper maker (ebonite); (i) as for stopper maker; (ii) an ebonite turner *q.v.* engaged in fashioning screw stoppers on hand lever operated lathe.

shaper, tyre shaper, see tyre curlier.

sheeter, see calenderer.

sheet maker; a calendar band *q.v.* who passes rubber dough through a calendar machine where rollers, to reduce it to required thickness, regulates setting of rollers (which determines thickness of sheets) and watches passage of sheet through rollers; see also sheet maker (DSE).

shrinker; (i) winds uncured rubber to be used for shoes, for purpose, *c.f.* rubber bandages, on drums, wrapping it at the same time with cloth kept under tension; places drum in heating chamber; (ii) places lat balloons on hot plate in order to dry them after drying.

sinker, see compositor (rubber stamp); sinker (waterproof garments), see cementer.

solutioner, solutionist, rubber solutioner, rubber solutionist, see cementer.

solutionist (aeroplane); rubber worker (aeroplane); applies with a brush rubber solution (dope) to covers of aeroplane wings to render them impervious to air and water; also cements joints in fabric with solution.

sorter, india rubber sorter, rubber sorter; sorts old, late different grades, sizes, etc., types and qualities, in preparation for being broken up for reclamation; see reclaimers.

spinalist grip winder, see armorer.

stepper maker (rubber works); fills steam-heated metal moulds with uncured rubber or low grade vulcanite, and puts them in vulcanizing press; turns screw handle to regulate pressure; removes moulded and vulcanized stepper.

surgical hand, india rubber surgical hand, rubber surgical hand, see rubber appliances maker.

tread cutter, see tyre tread cutter.

tubing drawer; rubber drawer; draws narrow strips of sheet rubber with solutioned edges through a round hole in a plate, whereby edges adhere, and strips are formed into tubes.

turner, fountain pen case; case turner (fountain pens), fountain pen turner; an ebonite turner *q.v.* making fountain pen cases.

turner (wind instruments, ebonite); turns barrel of wind instrument made of ebonite to size and shape required, on a lathe, as for turner (DSE).

tyre curlier; shaper, tyre shaper; shapes and expands rubber tyres from flat state in which they are received from tyre maker (002) *q.v.* by placing curving area inside, and ironing to shape by hand.

tyre finisher; motor tread fitter, rubber tread maker, tyre tread fitter; affixes tread to tyre cover by hand, with solution, before vulcanization; sometimes presses small pieces of rubber into required shape to form external surface of tread; usually does not re-tread, *c.f.* tyre maker (002), tyre retreader.

tyre repainer; cover repainer; repairs burst or worn tyre covers and inner tubes by solutioning and patching, or by vulcanizing process, see vulcanizer (002).

tyre retreader; attaches new treads to worn tyre covers by solutioning and vulcanizing, places tyre on wheel-shaped core, strips off tyre casing with hand knife, if necessary, cuts away worn casing and solution-on new canvas; build-up and solution-on new rubber tread as for tyre finisher; wraps tyre in canvas and vulcanizes as for vulcanizer, steam (003).

tyre tread cutter; tread cutter; (i) most usual, cuts long strips of tread from tube band (003) *q.v.* into lengths, using hand knife, and weighs; (ii) cuts calendered rubber sheets into strips, and builds them by solutioning into shape for use in re-treading tyres; (iii) cuts up and weighs lengths of solid rubber for making solid tyre.

tyre tread fitter, see tyre finisher.

tyre wiper; motor tyre band fitter, wiper; (i) affixes tread wire to outer edge of tyre covers to strengthen them and to facilitate fitting them into wheel rim; receives cover from tyre maker (002) *q.v.* and beads wire into each edge of canvas layer by tapping and with solution; (ii) inserts tread wire by hand into lengths of solid tyre for carriages.

valve examiner (tyres); examines and tests valves of tyres, to ensure that they are airtight, by inflating tube and placing valve under water; usually done by valve fitter (009) *q.v.*

valve maker (mechanical); (i) cuts rubber valves for engineering and chemical trade fittings, out of rubber sheeting by means of a power stamping machine; (ii) a screw vulcanizer (003) *q.v.* making engineering valves.

valve rubber maker; a tubing drawer *q.v.* making valve rubbers.

varnisher, india rubber varnisher, rubber varnisher; (i) polishes semi-finished or finished rubber goods, by hand, using cloth impregnated with shellac polish; (ii) attends polishing or varnishing machine; controls by means of a system of levers, feeds rubber goods to rollers, passing goods through trough of shellac; guides polished goods to hot drying drum and finally to winding-on roller; maintains supply of polish in trough.

vulcanite cutter (pipe); brier mouth-piece cutter; cuts up blocks of vulcanite, on a power-driven guillotine; or circular saw, into sizes convenient for making into mouthpieces for tobacco pipes.

vulcanite finisher, see ebonite finisher.

vulcanite turner, see ebonite turner.

warmer up; mill operator; warms raw rubber by passing it between steam-heated rollers, in preparation for calendering.

waterproof cover maker; cuts out parts of cover from rubberized cloth, using tin patterns; solutions seams, and passes to machinist (419) *q.v.* and finisher *q.v.*

waterproof cementer, waterproof garment stickler, waterproof stickler; sticks together with rubber solution, seams of waterproof garments, applying solution with fingers or brush and rolling-over seams with hand roller.

waterproof maker (rubber), as for garment maker, rubber.

wirer, see tyre wirer.

609...OTHER WORKERS.

air bed inflater, air cushion inflater, air cushion tester; fills air beds or cushions with air by machine pump, inserts needle of bed of cushion with soap solution and leaves bed, etc., inflated for several hours; inspects periodically and detects leaks by observing soap bubbles; in small firms, often done by airport goods maker (009) *q.v.*

assembler (rubber shoes); assembles parts of rubber shoes into sets, and takes them to making room.

balloon printer; stencil or paints toy balloons, by hand, using paint, stencil and brush, after they have been made and before being inflated by other workers.

balloon tester; inflates toy balloons with a hand-operated air compressor to test their tensile strength and air tightness, often done by balloon maker (003) *q.v.*

band buffer; removes rough edges from rubber bands as cut, by holding against revolving balls.

batch carrier; carrier (rubber); carries chemical compounds in powder form, from drug room to rubber mixing mills.

block cutter; (i) cuts up thick calendered rubber sheets into blocks with a power-driven circular saw or guillotine, (ii) feeds rubber-covered canvas sheets into machine which cuts them into strips for making engine packing.

block roller; rolls up thick calendered rubber ready for cutting by block maker (003) *q.v.*; work usually done by block maker.

bogey man; carrier (rubber); carries rolls of rubber on trolley or bogie truck from one department to another. bradler; operates a machine which brakes out of or substitutes yarn round hose or tubing.

brander, see stamper.

cable packer; coils rubber-insulated electric cables on drums, ready for vulcanizing.

card clothing rubber cutter; rubber block cutter; cuts thin sheets of rubber from large cylindrical blocks, by machine, for use in making card clothing; sets block in grips; adjusts knife to cut to required thickness and controls machine by lever.

carrier (rubber); (i) see batch carrier; (ii) see bogey man.

cellar man, see dryer.

chalk slaver; drug slaver; riddles chalk in dry-room prior to its being mixed with other chemicals ("drugs").

cleaner (tyres, etc.); removes, by hand, adherent particles of chalk and by-products of vulcanization as rubber goods (tyres, etc.) come from vulcanizing chambers.

cleaner, india rubber or gutta percha (electric cable); india rubber washer; prepares and cleans (in music staves) rubber used in severing electric cable, by heating, kneading by hand, and removing scum.

cleaner, rubber, see washer.

clicking machinist; operates clicking machine which punches or cuts sheet rubber into shapes for making various rubber appliances; fits dies, or knives into machine, positions rubber and pulls, lever actuating dies or knives; or positions rubber, places a die thereon and pulls lever causing a buffer to descend on die.

cloth cutter (card clothing); cuts card clothing of rubberized cloth, etc. and with wire teeth for textile combing, into narrow strips (dilets) by machine; adjusts machine to cut to required width, guides cloth into machine; starts and stops machine by levers.

cloth labourer (card clothing); assists operatives making card clothing, e.g. cloth cutter, cloth doubler (608), card clothing rubber spreader (602), g. collar; cuts card tube, as it emerges from forcing machine or squitter, in way of French chills.

conductor, *see* flosser.

cracker; passes waste rubber through a slotted mill, to cut it into small pieces, preparatory to their being powdered in grinding mill by reclaimers (608) g.v.

cutter (boots and shoes); (i) cuts out rubber soles from calendared sheet by hand, using knife or scissors, and following pattern cut from tin; (ii) cuts out soles from sheet by power-driven circular knives (operated by treadle) which travel round pattern; (iii) cuts up waste rubber into cured rubber sheets to required length and width for sole, etc., inner tubes, on a table using hand knife.

cutter (tyres, etc.); India rubber cutter, rubber cutter; (i) *see* mixer's cutter; (ii) cuts up waste rubber (tyres, etc.) by machine before cracker (*see* cracker) or grinding for reclaiming (*see* reclaimers).

cutter, band; as for cutter, washer.

cutter, hose; cuts rubber sheet and coated canvas into strips for hose makers (608) g.v. using knife and straight edge; or, feeds rubber sheet to rollers of hose machine fitted with guillotine; adjusts screws regulating width of material cut, and operates levers to start and stop machine.

cutter, insulation; insulation maker, insulator maker; a clicking machinist g.v. who cuts or stamps, into suitable sizes, rubber or composition for use as insulating material in electrical industry.

cutter, mixer's; cutter (tyres, etc.); India rubber cutter, rubber cutter; cuts lumps of raw rubber to convenient sizes, by hand, with a large knife, at same time removing stones and other impurities.

cutter, rubber (textile machinery); cuts, by hand, "baucuts" (lumps) of raw rubber into small pieces for washer g.v.

cutter, rubber block (card clothing); *see* card clothing rubber cutter.

cutter, washer; makes washers by cutting from rubber cylinder revolving on a lathe mandrel; adjusts, by hand, lathe knife to cut washers to required thickness; starts and stops lathe by means hand lever; sometimes also cuts rubber bands.

cutter-out, abouite; hand rubber cutter-out; cuts up abouite dough, using scissors or hand knife, into small pieces or strips ready for abouite moulder (602) g.v. or abouite make-up (602) g.v.

cutting machines (tyres); operates bins machine for cutting; prepared tyre canvas; feeds material to machine rollers passing it to guillotine; operates levers actuating machine and removes cut canvas; adjusts regulator governing cut canvas cut; dental rubber pecker; packs finished sheets of dental rubber between glazed linen presses, cuts up to regulation size, boxes them and labels the boxes.

dipper; dips mould several times in strong solution of rubber to obtain coating on mould, thereby forming small thin articles of pure rubber, e.g. tests, drug steers, see chalk steers.

drug weigher; India rubber powder men, India rubber weigher, powder men, rubber powder men, rubber weigher, weigher; weighs out chemicals used in rubber mill for strengthening and conditioning raw rubber.

dryer; calenders; (i) dries sheets of washed rubber by steam heating or air current, in preparation for manufacture of rubber dough; (ii) spreads

washed rubber in drying chamber or on drying screens in reclaiming process.

eraser maker; feeds and operates machine which cuts thick sheet rubber to required shape and size for erasers, pressing sheet against circular knife, operated by hand lever.

examiner, *see* sifter (boots and shoes).

examiner (inner tubes), infuses cycle, etc., inner tubes on mechanical-driven air pump and leaves inflated for 24 hours to test for leakage, etc.; makes visual examination of tubes for defects.

examiner, tyre; examines cycle, etc., visually for defects, e.g., damaged heading, parts finished in moulding press, and passes or rejects accordingly.

eyelid roller; attends power-driven machine which punches holes and inserts eyelids down fronts of rubber boots or shoes.

feeder (extruding); under direction of tube hand (602) g.v., feeds rollers of extruding machine with uncured rubber passed-on by warmer (extruding) g.v.

feeder-rop (rubber calendaring); under direction of calenderer (605) g.v., passes warm mixed rubber between calender rollers by hand.

foxer (rubber boots and shoes); convector; puts rubber solution round edges of canvas top with a brush, by hand, sometimes also fixes thin layer of calendared sheet to canvas top, to render shoes watertight; cf. cementer (608).

glue maker (chemical and electrical); cuts prepared uncured sheet rubber to required solutions, edges, and sorts them up.

glove maker (surgical), India rubber glove maker; (i) a dipper g.v. who places wooden or metal moulds, having shape of a hand, on a rack or table, and dips rack, by hand, continuously into troughs of rubber solution, until coating of rubber moulds is of required thickness; strips rubber from mould, and varnishes it, or dips in "cold cure" vulcanising solution before stripping; (ii) controls rotary machine which performs dipping operation, as in (i) above; fixes and removes gloved moulds, operates machine by means of hand levers and maintains supply of solution in trough.

golosh fitter; layer (boot and shoe); presses, in hydraulic press, strips of rubber previously sewn to sides of shoes; often done by heat and shoe maker (rubber) (608) g.v.

ground sheet maker; solutions edges of vulcanised rubber-covered cloth, either by hand, or with brush, and pleats it to form a stronger hem, hand-rolling hem to make secure fastening.

heel pad sorter; examines rubber heels and soles for flaws, and sorts into different shapes and sizes.

heel and trimmer; trims raw edges of moulded heels and heels, by hand with scissors.

hose band, rubber; *see* hose maker's assistant.

hose maker's assistant; rubber hose band; (i) assists hose maker (608) g.v. by corrugating hose (made by "forcing" or extruding process) with chalk to prevent it from sticking; (ii) assists armorer (608) g.v. in wiring process.

hose ditcher; stitches, by hand, strong canvas covering over large flexible hose after it has been vulcanised.

inner bag fitter; removes, from cord tyres, wheel shaped core used by tyre maker or by tyre finisher g.v., inserts air bag and inflates with compressed air pump for use of insulation tyre (602) g.v.

insulation maker, insulator maker, *see* cutter, insulation.

joiner-up; joins together open ends of cycle, etc., inner tubes, using rubber solution; vulcanises solution at joint by brushing over with sulphur

chloride and carbon bisulphide solution, sometimes also does work of valve filter g.v.

lapper, *see* wrapper.

layer (boots and shoes); *see* golosh fitter.

mat puncher, India rubber mat puncher, rubber mat puncher; punches holes and patterns in rubber mats, by hand, using a mallet and punch, or places mat in lever operated press machine, sometimes done by mat maker (608) g.v.

medical rubber maker; makes such articles as tests, bulbs for syringes, etc., by dipping moulds repeatedly, by hand, in a rubber solution.

mould cleaner, golf ball; removes surplus gutta percha squeezed out of mould in press.

pimper; inserts eyelids, etc., in hot rubber in process of making rubber heels, etc.

polisher; polishes proofed cloth, by hand or machine, after it has been spread by spreader (602) g.v.

powder man, India rubber powder man, rubber powder man, *see* drug weigher.

ring maker; (i) cuts packing rings and washers from calendared sheet by placing a number of sheets under circular cutters in a press; (ii) makes umbrellas rings and gauge-gauge rings from sheet rubber by wrapping it round a mandrel, by joint action of two rollers of sheet, and rolling up with the fingers.

rubber crusher; *see* washer.

rubber mincer; feeds waste rubber to roller machine which breaks it up into small pieces prior to rognation; controls machine by levers.

rubber mixer; attends masticating (mixing) machine and feeds it with rubber that has been washed (*see* washer); adds naphtha and sulphur after mixing.

screener, *see* washer.

second hand (rubber calendaring); under direction of calenderer (605) g.v., guides calendared rubber between sheets of fabric on another roller in calendaring machine, in rubber tyre making.

sorter (boots and shoes); examiner; examines rubber boots and shoes visually for defects; rejects defective articles; sorts into pairs and sizes.

stamper; bronzer; stamps sizes and brands by hand, with rubber stamp or with stencil, brush and paint, on rubber boots and shoes, rubber tyres and other articles.

stopper polisher (rubber works); a trimmer, engaged in trimming or polishing stoppers.

storeman, storier; feeds with rolls and stakes hot-stove, used in rubber drying process.

strainer; filters impurities out of rubber solution, by passing it through a sieve.

stripper; strips rubber boots and shoes from lasts after vulcanisation; arranges lasts in trays for re-use.

stud riveter; fixes steel studs in semi-cured trends of motor tyres; punches, on automatic punch, holes for studs; inserts stud by hand; secures by spinning, e.g. expanding, inside of studs on power-driven spinning machine.

tacker; fastens rubber shoes together in pairs by a power sewing machine.

test roller; removes dust on moulds from dipper g.v. and rolls up thin edge of tests with fingers to form a load; usually done by dipper.

test stripper; strips rubber tests from moulds received from test roller or dipper g.v.

tile roller, rubber (stamping); places cured rubber sheet in press, pulls actuating lever, and removes stamped-out rubber tiles.

trimmer, block trimmer, India rubber trimmer, rubber trimmer; trims raw edges and ends from vulcanised articles, using hand knife, scissors, emery paper, or power-driven knife.

trimmer, solid tyre; cuts away extra weight from heavy solid tyres with a long hand-knife.

tube skiver; *horvle*, or *skiver*, inside of one end of *eyele*, etc., inner tube for joiner-up *g.v.* on skiving machine; places mandrel mounted with tube in machine and presses tube end against revolving circular knife, actuates machine by hand levers; sometimes punches hole for tube valve by hand with hammer and punch.

tyre wiring machinist; wiring machinist (tyres); sews wire by machine into edge of canvas strips used in making "wired-on" tyres.

valve fitter; inserts valve stem into hole in *eyele*, etc., inner tube and checks on rubber valve cap, using rubber solution; vulcanizes solution by brushing over with sulphur chloride and carbon bisulphide solution; tightens valve washers and nuts; sometimes done by joiner-up *g.v.*

varnisher (boots and shoes); varnishes over rubber parts of shoe while it is still on last, either by dipping, or by applying varnish with brush.

warmer (extruding); feeds, under direction of tube hand (602) *g.v.*, steam heated rollers of rubber extruding machine with uncured rubber and passes on rubber to feeder (extruding) *g.v.*

warmer-up (rubber calendaring); under direction of calendarer (608) *g.v.*, passes mixed rubber for calendaring to steam heated rollers for preliminary warming; operates rollers by hand lever.

washer, rubber; washer, rubber washer and cleaner; cleaner, rubber cleaner, rubber crusher, arbeiter; attends and feeds washing machine having heavy corrugated rollers through which raw rubber is passed under a powerful jet of water, which washes out grit and other impurities.

washer, balata; soaks raw balata in water, washes in rotary machine, and passes it through washing rollers.

washer, india rubber (electric cables); see cleaner, india rubber (electric cables).

weigher, india rubber weigher, rubber weigher; see drug weigher.

wire spinner; spins wire on lathe for armoring inside of suction hose.

wiring machinist (tyres); see tyre wiring machinist.

wrapper, tube wrapper; lepper; fixes in lathe, rubber, covered mandrel from tube maker, inner (602) *g.v.*, starts up machine and wraps layers of wet cloth on revolving tube for vulcanizer, steam (602) *g.v.*

Sub-Order 2. — Workers in Bone, Horn, Ivory, Celluloid, etc.

612.—TURNERS.

billiard ball maker, billiard ball turner; makes ivory billiard balls by turning solid pieces of ivory on lathe constructed with special adjustable holding chucks, and by applying hand tools to the revolving ivory; is specially skilled in turning billiard balls which are held in eight different positions during turning; *cf.* turner. turner, bone turner, beak horn turner, celluloid turner, horn turner, ivory turner, vegetable ivory turner; makes or turns articles of tortoiseshell, celluloid, xylonite, erioloid, ivory, bone, horn, as cases may be, on power-driven lathe; in large works, sets up material and adjusts lathe tools and gauge; keeps lathe running and stops it, if necessary, to change tools during turning; is small worker, fits up work and applies hand tools to material as it revolves at high speed on lathe; may be further designated by article turned, *e.g.*, bone disc turner, bone ball turner (cutlery and tool handles), button turner, comb turner, horn handle turner.

613.—SCALE CUTTERS AND PRESSERS.

haft cutter, see handle cutter; sometimes specifically named according to material worked in, *e.g.*, bone haft cutter, horn haft cutter.

handle cutter; haft cutter; tip cutter; cuts solid handles or tips (haft into beed hole of which tang is cemented) for cutlery, taspets, etc., out of bone, horn, ivory, etc., with hand saw or with power-driven circular or hand saw; usually also cuts scales, see scale cutter; sometimes specifically named according to material worked in, *e.g.*, bone handle cutter, buffalo horn handle cutter, bone handle cutter, ivory handle cutter, stag handle cutter; see also handle cutter, pearl; handle cutter, shell; handle cutter, xylonite.

handle cutter, pearl; steel handle cutter; cuts pearl handles on high speed circular saw fed with water for cooling and dust slaying; forms and polishes with abrasive wheels special shapes according to design.

handle cutter, shell; (i) see handle cutter, pearl, (ii) saws, forms and polishes handles of tortoiseshell for cutlery, etc., using machine saw and abrasive wheels.

handle cutter, xylonite; cuts handle blanks from strips of xylonite in slab form, on water fed circular saw; grinds them on carbonium wheel or glazer.

plate presser, horn plate maker, see scale presser.

presser, handle presser; presses three or softened horn handle blanks into required shape between hot dies in hand or power press, and takes off flesh; frequently also softens bone by suspension in boiling water and cuts blanks with saw knife; usually also presses scales, see scale presser.

pressman (celluloid scales), see scale stamper.

scale cutter; or for handle cutter, cutting scales (pieces fastened on each side of tang to form handle) for cutlery, razors, penknives, etc.; *cf.* scale stamper.

scale presser; kern plate maker, plate presser, or for handle presser, pressing combs for cutlery, etc.

scale stamper; pressman (celluloid scales); stamps out scales for cutlery handle, etc., from sheet celluloid, or pieces of bone, horn, etc., by use of hand or power press stamps.

tip cutter, see handle cutter; frequently specifically named according to material worked in, *e.g.*, bone tip cutter, horn tip cutter, ivory tip cutter, pearl tip cutter, shell tip cutter, stag tip cutter, xylonite tip cutter.

618.—OTHER SKILLED WORKERS.

accumulator case maker; cuts accumulator case parts from sheet celluloid, using knife and straight cutters; also does work of accumulator case cementer (619) *g.v.*

bag olap maker; makes ornamental fittings of ivory, tortoiseshell, etc., for use in finishing ladies' hand bags by cutting out sketched design, on ivory, etc., blank, with hand fret saw, or sometimes, by means of treadsle.

ball maker, celluloid ball maker; (i) attends and feeds a machine in which sheet celluloid (xylonite, etc.) is pressed into shape of a hemisphere which, with another, is afterwards joined with liquid celluloid by cementer (619) *g.v.* to make complete balls; (ii) attends and feeds a machine in which celluloid is blown into spherical die in a semi-liquid state, and dried by heat.

bone brush drilller; borer (bone brushes); drills holes in handles of bone brushes, ready for insertion of bristles, using power drill.

bone brush fashioner, bone brush profiler; bone handle maker; finishes off rough bone tooth brush shapes to required size, with hand file; is usually engaged on special orders; *cf.* profiler (619).

bone brush plaster; roughly fashions lengths of bone by means of hand plane, into flat brush shapes.

bone brush preparer; a bone cutter *g.v.* who cuts rough pieces of bone on a circular saw to length required for toothbrush making.

bone handle bairer, bone handle fitter; files bone baits or handles, scrapes or shaves them to shape and fixes them to blades.

bone handle maker; see bone brush fashioner; *cf.* handle cutter (613).

bone jigger, bone jumper, see bone scorer.

bone sawyer, see cutter, bone.

bone scorer; baw, borer, bone jumper; cuts bone into grooves, or "jumps" in imitation of stag or buck horn; generally uses a small circular saw or rasp.

bone worker; general term for any worker engaged in cutting, turning, polishing, etc., bone articles.

borer (bone brushes), see bone brush drilller.

borer (honey combs and slides); cuts designs in fancy combs and slides, of celluloid, erioloid, etc., by drilling holes with an electric hand drill, for reception of ornamental pieces of glass, stone, etc.

brush fashioner (celluloid), xylonite brush fashioner; finishes corners and edges of rough brush with a file by hand.

buffalo horn worker; general term for any worker engaged in cutting, sawing, staining, polishing, etc., horn (other than stag horn); includes horn cutter, horn opener, etc.

burrgrader (celluloid); profiler; rounds-off teeth of combs and their bands, repairing burrs and other irregularities with a "grale" or file; *cf.* burrgrinder (machine) (619).

celluloid layer (piano keys); scrapes surface of sheet celluloid and of wooden base of piano or organ key-board with an iron toothling tool; glues celluloid on to keyboard by hand, and presses in hand press; *cf.* ivory layer.

comb maker (bone, horn, etc.); general term for any worker engaged in cutting, grinding, polishing, etc., combs or horn or ivory. tortoiseshell; includes saw knife cutter, setter, comb drier (619), comb duster (619), comb grinder (619), comb circle cutter (619), polisher (619) *g.v.*

color (erioloid); one quarter of a set of presses in which erioloid dough or articles made of erioloid are cooled under pressure to prevent warping; inserts dough or articles in presses, which he operates, and removes them when cooled.

cutter, bone cutter; bone sawyer; removes joint knuckles and cuts animal bone (usually shin bones) into desired shapes, *e.g.* blanks for tooth brushes, on a power-driven band or circular saw, ready for fashioner.

cutter, bone disc; a bone cutter *g.v.* who cuts rough bone discs on a power-driven band or circular saw ready for bone disc turner (612) *g.v.* cutter (celluloid collars, etc.); places sheets of celluloid in guillotine by hand and, by pulling lever, cuts out shapes of collars and cuffs; *cf.* collar cutter (rubber) (608).

cutter, horn; cuts horn with a hand saw, or on circular saw into sizes suitable for making into required articles; may also finish articles, *e.g.* cutlery handles, *cf.* handle cutter (613); sometimes specifically designated, *e.g.* buck bone cutter, buffalo horn cutter, stag horn cutter, cutler, ivory; ivory block-out, ivory shaver, ivory masher; cuts ivory tusks into slabs on a circular saw; *cf.* handle cutter (613).

cutter, ivory nut, see cutter, vegetable ivory.

cutter, ivory piano key; ivory piano key cutter; cuts black ivory into thin strips on a circular saw, and bleaches strips, when necessary, *cf.* bleacher (619).

cutter, pearl; (1) *shell cutter*; cuts mother of pearl (along the natural curve of shell, to prevent subsequent splitting) into required sections or shapes on high speed circular saw supplied with water for cooling and dust allaying; (2) *pearl splitter*; *pearl cutter*; cuts mother of pearl into and dresses it into suitable form for stringing; work seldom performed in this country.

cutter, shell; see *cutter, pearl*, or *cutter, tortoiseshell*.

cutter, sawy knife; cuts horn (other than stag horn) sections longitudinally, with a hand sawy knife, into sizes suitable for scale pressing, or for doing plates, combs, etc.

cutter, tortoiseshell; shell cutter; cuts tortoiseshell into required shapes and sizes with a fret saw or with a circular saw.

cutting, vegetable ivory; ivory saw cutter; cuts vegetable ivory into required sizes and shapes with a hand saw or with circular saw.

cutting, whalebone; cuts softened whalebone into lengths of required thickness with spokeshave or circular saw; usually does work of whalebone porter (619) *q.v.*

cutting, xylophone; cuts articles of xylophone to shape with a knife, or with a press and guillotine.

fashioner; see *bone brush fashioner* or *brush fashioner* (celluloid).

filterer, filter man, filter machinist (celluloid); puts celluloid dough in filter press and controls press by means of levers to squeeze out dirt and foreign matter.

finisher; a tooth brush worker, *q.v.* who (1) polishes brush frames on felt buff with whitening; (2) sets bristles by means of resin; (3) trims bristles on a trimming machine.

fitter, handle fitter; (1) scores and shapes cutlery handles by means of glass paper, wheels, or saws; (2) carves fittings, or other grooved ornamentations, by hand or on a lathe, on handles of table carvers, fruit knives, etc., made of ivory, bone, etc.; may also polish them on buffs or rollers; see *handle polisher* (619); sometimes specially named according to material worked, *e.g.* ivory fitter.

grainer (celluloid); see *burginizer*.

guillotine hand; cuts up into required sizes, sheets of celluloid, mica, ebonite, etc., with an ordinary printer's guillotine, operated by hand.

hackler (whalebone brusher); draws by hand side strips of whalebone repeatedly through a buckle, a type of comb, to sort them into lengths for brushmaking.

horn opener; opens a section of horn by cutting it longitudinally with saw, warms it in stove and flattens it out for comb making in a press.

horn worker; general term for any worker engaged in cutting, pressing, turning, polishing, etc., of horn articles; includes horn cutter, horn opener, prasser (613), horn turner (612), horn polisher (619) *q.v.*

ivory artist; vegetable ivory artist; (1) paints decorative work on ivory or vegetable ivory (corozo nut); (2) see *ivory carver* and *ivory engraver*.

ivory bleacher; bleaches ivory by soaking tubs of ivory in hydrogen peroxide; is usually also an ivory turner (612) *q.v.*

ivory block-out; see *cutting, ivory*.

ivory carver; ivory artist; carves ivory articles, with hand or machine tools *e.g.* handles, fittings to bags, bottles, etc., *cf.* *chiseler*.

ivory engraver; ivory artist; engraves designs or carves in relief, with delicate hand tools upon ivory.

ivory layer; (piano key); shivers edges of ivory with a plane where joint is made between head and tail of ivory keys; fits and glues pieces

of ivory (cut in shape of piano keys) on to a board which is then passed on to ivory piano key cutter *q.v.*

ivory matcher; ivory sorter; sorts out, matches for colour, and marks for cutting, ivory tubs, before manufacturing; sorts slabs, bundle blanks, piano key scales for colour marking, etc.

ivory piano key maker; see *cutting, ivory piano key*.

ivory polisher; scrapes ivory keys with a plane and scraper, cleans them with fine glass paper, and polishes them with methylated spirits and whitening.

ivory rounder; takes rough edges off corners of ivory key pieces with a file and polishes edges of ivory with a piece of felt, before key pieces are glued on to keyboard.

ivory sawyer; saws ivory into required sizes with a hand saw or power-driven hand saw.

ivory shiver, ivory slabber; see *cutting, ivory*.

ivory slipper; glues piece of ivory, called a slip, on to front of board, from which keys are cut; is usually a *q.v.* *cf.* *layer*.

ivory sorter; see *ivory matcher*.

ivory worker; general term for any worker engaged in cutting, sawing, turning, etc., ivory articles; often works interchangeably, *e.g.* cuts, hails, and cuts knife handles from blocks of ivory; includes ivory turner (612), ivory handle cutter (613), ivory cutter, ivory bleacher, ivory carver, ivory engraver, ivory layer, ivory matcher, ivory polisher, ivory rounder, ivory sawyer, ivory slipper *q.v.*

locker-over (piano keys); examines finished keys, before they leave factory, to see if they are up to standard quality; wipes keys and sandpapers out scratches; returns faulty keys to workshop concerned; sometimes specially named if operating in ivory or celluloid, *e.g.* celluloid locker-over, ivory locker-over.

machinist (celluloid); general term for any worker operating a rolling, slicing, extruding, etc., machine; see *roller, slicer, tube shop man*.

maker-up (celluloid combs, etc.); places cotton base on celluloid sheets, applies adhesive, turns over edges of celluloid and places in press to stick down turned edges.

maniculate maker; (1) more usual, cuts a metal plate, binds thereon layers of mica splittings into a sheet, brush (on) on bellows to bind layers, hardens and presses; (2) feeds a mixing and crushing machine with mica and binding composition, which is pressed while hot, into sheets; operates levers to start, and stop machine.

maniculate washer maker; cuts manicate sheets into squares, on circular saw or band guillotine, and reduces them to washers by turning them on lathe.

maniculate worker; general term for any worker engaged in making manicate articles by cutting, shaping, pressing, turning, etc.

mother of pearl worker; pearl worker; general term for any worker engaged in cutting, grinding, polishing or finishing-off mother of pearl articles, *cf.* *pearl carver, pearl cutter, pearl grinder, pearl polisher* (619) *q.v.*

parasol tip maker; see *umbrella tip maker*.

pearl box maker; cuts, grinds and polishes pieces of mother of pearl, before gluing against mechanically driven saw, grinding wheel and buff, respectively, and cements pieces together in a framework of metal, wood or other material.

pearl button maker; shapes mother of pearl buttons by cutting, turning and grinding button blanks in lathe to form holes and recesses; holds tools against revolving blank, applies abrasive or polishing composition, starts and stops lathe by means of hand levers.

pearl card case maker, or for pearl box maker.

pearl carver (hand); piercer (mother of pearl); marks, by hand, designs, flutes, etc., on mother of pearl and carves, by hand, with special tool.

pearl carver (machine); guides motion of pearl articles on revolving carbide wheels or steel cutters of varying pattern, either by dry method, or by using water as a dust allover and cooling agent.

pearl dryer; duster; mother of pearl, and articles made therefrom; first prepares pearl by immersing it in solution of ammonia and silver nitrate for about eighteen hours; then thoroughly washes it in running cold water to rid surface of ammonia and nitrate; finally, immerses pearl in vat containing dye, not necessarily aniline.

pearl fitter; ornaments mother of pearl articles by fitting; as for handle fitter.

pearl grinder; grinds mother of pearl articles, after they have been cut to pattern, by pressing them against mechanically driven carbide wheels or against an anvil stone, generally using water for cooling and dust allaying; operates lever to start or stop grinding wheel.

pearl handle borer; borer mother of pearl handles or scales, for cutlery and other articles, with a power drill, in readiness for fixing of blades, etc.

pearl shaver; holds shell against revolving blade of power-driven machine and shaves off brown hack in very small particles until back is a white and even surface.

pearl splitter; see *cutting, pearl*.

pearl worker; see *mother of pearl worker, or cutter, pearl*.

placer (mother of pearl); see *pearl carver (hand)*.

planing machinist (celluloid); see *slicer (celluloid)*.

polisher (piano keys); see *ivory polisher (piano keys)*.

rod machine hand (celluloid); attends and feeds machine which extrudes dough in forced through a die to make rods or tubes.

roller (celluloid); roller attendant, roller machinist; workman (celluloid); passes celluloid dough through steel rolls (hot or cold) to make it homogeneous, producing sheets or thin blocks; may "figure" xylophone, if required, by rolling together sheets or masses of different colours to produce patterns resembling ivory, agate, tortoiseshell, onyx, etc.

sawyer (whalebone); cuts strips of whalebone to length by pressing them against mechanically-driven hand saw; operates machine saw by means of hand lever.

setter (glass combs and slides); (1) sets brilliant stones, etc., in frame combs and slides of celluloid, ebonite, etc.; heats stones, etc., on stove, picks them up with electrically-heated rod, drops them into prepared holes and presses stones, etc., in by means of metal cap (1) sets up, or thumb, (2) sets up of straighten bent or mis-shapen teeth in combs.

shell worker; general term for any operative engaged in cutting, carving, or grinding mother of pearl or tortoiseshell articles, *cf.* *tortoiseshell presser, pearl grinder, q.v.*

slicer (celluloid); slicing machinist; machinist (celluloid); planing machine; operates planing or slicing machine, to cut celluloid, etc., into sheets; sets machine to gauge according to thickness of sheet required; also weighs material after it has been sliced.

solution maker (celluloid); dissolves nitro-cellulose or acetone-cellulose (used) with a solvent to make varnishes, enamels, or coatings used for covering croquet balls, etc.

splicer; joins together two pieces of bone, by sawing or skiving ends splineside and sticking them together with a cement solution.

tooth brush maker; **tooth brush worker**; general terms sometimes applied to workers employed interchangeably on different processes of tooth brush making, e.g., cutter (bone brush making), bone brush proper, bone brush finisher, bone brush planer, bone brush drill, finisher, etc.

tortoiseshell assembler and finisher, **tortoiseshell mounter**; assembles component parts of tortoiseshell articles, e.g., boxes, cigarette cases, and faxes hinges, tooth brush handles, etc., and mounts monograms, etc., by hand, using pins and screws.

tortoiseshell presser; heats the natural tortoiseshell in hot salt water and wraps it in wet rags; places it between hot iron tops or molds, and presses it into sheets or into required shapes by means of dies; if it is to be used in making articles of thick tortoiseshell, cements several layers together with a transparent adhesive before pressing.

tortoiseshell worker; general term for worker engaged in any process of making tortoiseshell articles, e.g., tortoiseshell assembler, tortoiseshell presser, polisher (tortoiseshell) (619) g.v.

trapping machinist; operates and controls a machine which draws out, smooths and shapes tubular lengths of bone, horn, celluloid, and similar materials; rounds off and points crocheted hooks, shoe horns, knitting needles, and other articles of bone, tube shop man (celluloid); **workshaper** (celluloid); operates tube and rod extruding machines, which squeeze and extrude xylonite, etc., through dies, forming rods or tubes used for making cycle pumps, handle bars, etc.; sets dies and controls and regulates machine by means of screws and levers.

umbrella tip maker; **porcelain tip maker**; makes, by turning out of bone, wood or ivory or by moulding from casein, ornamental tips for ribs of umbrellas, parasols, etc.

vegetable ivory engraver; engraves or carves designs, images, etc., in vegetable ivory with delicate hand tools.

whalebone sorter; sorts, for size and colour, whalebone according to purposes for which it is to be used, e.g., cutter (whalebone).

whalebone splitter; splits out whalebone to required thickness, by passing it under rollers feeding knives of splitting machine; operates starting and stopping levers and fits cutting knives.

whalebone worker; general term for any worker engaged in preparation and dressing of whalebone; includes whalebone cutter, sawyer, whalebone sorter, whalebone splitter, whalebone finisher (619), cleaner (619).

xylonite comb maker; (i) makes xylonite combs throughout, by stamping, cutting, profiling, scoring, polishing, etc., by machine; (ii) general term for any worker engaged in stamping, cutting, profiling, scoring, polishing, etc., xylonite in manufacture of combs therewith; includes comb cutter, comb polisher, cropper, sander (619) g.v.

xylonite worker; general term for any person engaged in making articles from xylonite.

619.—OTHER WORKERS.

accumulator case bender, **battery case bender**; bends celluloid sheet into shape of case by warming sheet to soften it, and bending it round block.

accumulator case cementer, **battery case cementer**; a cementer, g.v., who joins parts of celluloid case cut by accumulator case maker (618) g.v.

bleacher, **bone bleacher**; **stock bleacher**; bleaches cut pieces of bone, ivory, etc., by immersing them in tubs of tepid water containing hydrogen peroxide or other bleaching solution; cf. ivory bleacher (618).

bone brush tub man; a bone bleacher, g.v., who boils and bleaches bone brush handles; smooths handles in revolving tub, "rumbler," of water and whitening; boils in copper containing bleaching agent and allows to cool overnight, sometimes steaks boiler fire.

bone sander; removes rough surfaces from bone article on power-driven pumice stone grindstone, or on glassers covered with emery.

bone stainer; dyes; gives bone articles a colour finish by dipping them, by hand, in vats containing dye and heating acid respectively.

buffer; (i) see polisher, or sand paperer; (ii) (celluloid collars) passes collars and cuffs through rollers bound with many thicknesses of cotton and coated with gloss producing solution.

buffer, comb, see polisher, comb.

burgrailer (machine); **comb grailer**, **machine grailer** (celluloid); a machine grinder, g.v., who rounds off teeth of combs and their bases on a machine, removing "burrs" and irregularities; for hand worker, see burgrailer (618).

buttonholer (celluloid); (i) **metal buttonholer**; places celluloid collars in a buttonhole machine, and pulls lever to stamp in and fix metal rims to buttonholes; (ii) in button trade, pierces holes in celluloid buttons; cf. drill.

button mottier; dyes; colours or stains sheet celluloid or erinoid used in button making; positions stencils, and working trigger of compressed air spray, directs liquid colour upon sheets; changes stencils and replenishes spray container as necessary.

button worker; general term applied to workers employed interchangeably in button making, e.g., as turner (button) (618), drill (619), polisher (619) g.v. or, in making mother of pearl on erinoid buttons.

celluloid collar maker; general term covering workers in manufacture of celluloid collars and cuffs, including cutter (618), maker-up (618), buffer, shaper, buttonholer, g.v.

cement (celluloid); **jointer**; joins, using hand brush, component parts of celluloid articles with liquid celluloid, e.g., action of celluloid in any-necotone, acetone, and methylated spirits.

clatter (celluloid); rounds off and smooths teeth of combs on a calico mop charged with emery powder and water, or with powdered pumice.

cleanser (celluloid); sheet cleanser; rubs over surface sheets with cloth dipped in naptha to remove dusty film, etc.; cf. washer.

cleanser (whalebone); washes whalebone with hand brush or under mechanically driven revolving brush; removes hair from fins with hand knife.

comb drill; holds comb, after grinding process, against revolving cloth dolly, fed with sand and water to smooth away burrs, etc.

comb fluter (horn, ivory, tortoiseshell); **comb quiller**; a machine grinder, g.v., who grinds a longitudinal groove along roots of teeth of comb, thus forming a fluting at back of comb.

comb grailer, see burgrailer.

comb grinder (bone, horn, etc.); a machine grinder, g.v., who grinds sides and edges of comb.

comb quiller, see comb fluter.

comb setter-in; heats and presses into place outside teeth of comb, by placing in mould of small hand press.

cropper (celluloid comb), see twinner.

cutter, **comb**, may be either cutter, comb circle or twinner, g.v.

cutter, **comb circle**; **comb cutter**; cuts out teeth of more expensive combs, on a circular saw; sometimes also sets saw.

cutter, **comb twin**, see twinner.

driller; drills holes in smooth erinoid, gimbals, etc., button shapes, in semi-automatic drilling machines; fixes

shapes in machine, sets machine and stops it to change drills, to re-set, to feed, etc., cf. buttonholer.

drying room hand (erinoid), assists in room where casein is dried and cooled, carrying, stacking and attending to process.

drying room worker (celluloid), **layer-out**; lays out sheets of celluloid, after they have been sliced, to remove volatile solvents, in heated drying rooms.

dull finisher, see scourer.

dyeer, see bone stainer or button mottier.

fancier, see stamper.

flattener (celluloid), see scourer.

flouter, see layer.

flyer-out (celluloid), see stamper.

graver; cuts slots in backs of toothbrush stocks, along lines of handle holes by pressing blocks against circular saw, or number of parallel saws; sometimes also cuts slots with hand saw.

handle glasser; glasses, polishes, etc., cutlery handles of bone, ivory, etc., on wooden wheels, or glassers, having leather rims coated with glue and fine emery powder.

jointer, see cementer.

layer (celluloid collars); **flouter**; lays sheets of celluloid alternately with cotton fabric; pastes them together, places them in steam press which waxes material.

layer-out (celluloid), see drying-room worker.

machine grinder (celluloid), **machine grailer**; grinds sheets of xylonite or other similar material by holding against a pumice grindstone or by feeding into a special grinding machine; also grinds articles made of xylonite, etc., such as points of knitting and crochet needle, grooves in nail file, and any bevel edge, point, or hollow in any article; cf. burgrailer (machine).

metal, **buttonholer**, see buttonholer (celluloid).

moulder, see shaper (celluloid).

madguard maker (celluloid); (i) blanks and stamps out madguard parts on a press; (ii) assembles and fits together component parts of madguards.

pearl buffer, **pearl dolly**, see polisher, mother of pearl.

pearl glazer; removes marks, left by grinding on carburendum wheels, from mother of pearl articles by pressing them against a leather faced glazer, dressed with fine emery and glue, and used without water or grease; operates lever to start or stop action of pearl polisher.

pearl rumbler, mother of pearl rumbler; places mother of pearl articles with wet or dry pumice in a revolving barrel or rumbler; controls motion of machine by levers and removes articles when polished.

pluton worker; **teledron press operator**, **teledron stamper**; rounds hot teledrons (pluton), a cellulose compound, in a press; cleans off burred surfaces and polishes finished article.

polisher; polishes articles of bone, erinoid, tortoiseshell, etc., by holding them against a power-driven linen or calico mop smeared with Tripoli grease composition; sometimes specially named according to article polished or material worked in, e.g., bone brush polisher, bone polisher, billiard ball polisher, button polisher, horn polisher, tortoiseshell polisher.

polisher, celluloid; (i) **sheet celluloid**; imparts a high polish to celluloid sheets by pressing them between heated polished plates, placed in a hydraulic press; (ii) (celluloid goods) polishes finished celluloid articles by smearing them with a polishing paste of pumice, etc., and by holding them against a calico mop power-driven at high speed.

polisher, comb; **comb buffer**; a polisher, g.v., who polishes combs of celluloid, erinoid, etc., on a power-driven calico mop, either dry, or dressed with applications of rotten stone and oil.

polisher, handle; a polisher *g.v.* who polishes cutlery handles (bone, xylonite, ivory or metal) on a leather or felt dolly wheel.

polisher, mother of pearl; *pearl polisher*; *pearl buffer*, *pearl dresser*; a polisher *g.v.* who polishes mother of pearl articles with a polishing paste, containing rotten stone putty powder, or vitriol, by hand, or on a power-driven revolving canvas mop; sometimes does work of pearl planer *g.v.*

press hand (celluloid, etc.), *see* stamper.
pressman, hydraulic pressman (celluloid, etc.); (i) (*also* *celluloid*) takes sheets of xylonite, etc., after they have been rolled, places them together, and presses them, by hydraulic pressure, into a thick homogeneous block or mass; (ii) (*celluloid goods*) *see* stamper.

profiler (bone brush making); shapes sides of bone handles for tooth brushes by means of profiling machine, operating handle and lever of machine to bring bone stock in contact with cutting tool; for hand worker, *see* bone brush profiler (618).

profiler (celluloid); shapes strips of celluloid (xylonite, etc.), to correct curves and grooves to form shaped top of comb, tooth brush, etc., on a profiling machine.

radisher; removes rough edges from articles of xylonite, etc., with a knife, before it is secured and polished.

sander; a sander *g.v.* using a sand rubber or revolving barrel containing sand.

sandpaperer (celluloid, etc.); *buffer*, a sander *g.v.* using a sandpaper covered disc, drum or band.

sawyer; saws up bone, horn, celluloid, etc., to convenient sizes and shapes on a power-driven hand saw, in preparation for more skilled operations.

scooter (celluloid, etc.); *shell finisher*, *finisher*; removes rough surface on finished articles of celluloid, erioid, etc., before final polishing, using a sand-covered disc, a disc rotating with sandpaper, a power-driven pumice-stone wheel, an endless band of sandpaper, or in a rubber, or revolving barrel, containing sand; *cf.* sandpaperer and sander.

shaper (celluloid); moulder; (i) places shapable articles on a plate worked by steam to soften them, and shapes them by pressing into moulds by hand or in press; (ii) (*celluloid colours*) holds collar for a few seconds round steam heated block to soften and bend it to desired shape.

sorter (celluloid); examines and grades erioid sheets; blocks, rods or other forms as received from manufacturer.

sorter, scrap sorter (celluloid); sorts and grades scrap celluloid for re-working by pot shop man (148) *g.v.*

sprayer (celluloid); sprays celluloid in liquid form on to articles which are required to have a coating of celluloid, by means of a compressed air spray.

stainer (celluloid); stains celluloid articles by dipping in baths of aniline dyes dissolved in acetone, alcohol, or similar solvents.

stamper (celluloid); *fancier*, *fly-out* (celluloid), *press hand* (celluloid), *pressman* (celluloid goods); inserts sheets of celluloid in power-driven press fitted with cutters; pulls lever; controls valve by which steam alternately heats and cools water cooled before and after pressing.

stitcher (celluloid); (i) sews together by machine component parts of celluloid articles to make various kinds of receptacles; (ii) stitches in power sewing machine sheets of celluloid to fabric or leather for boots, side-screens of motor cars, etc.; finishes by hand sewing.

stock bleacher, *see* bleacher.

straightener (eroid), *panose* sheets, rods or tubes, made of erioid, through a set of rolls to straighten them.

straightener (whalebone); feeds whalebone to rollers of straightening machine; operates machine by levers and handles straightened whalebone, stripper (celluloid), takes or strips off thin celluloid articles from mould on which they are pressed by shaper or moulder.

swifter (celluloid comb); cleans and smooths surfaces between teeth of celluloid combs, cut by comb twinner, by pressing comb by hand against small cutting edge rotating on a power machine.

talandrom press operator, talandrom worker, *see* piston worker.

trimmer (whalebone brush); trims ends of whalebone lengths, for use in whalebone brushmaking, in hand operating guilottes.

twinner, comb twinner (celluloid); comb *facis* cutter, *cropper* (celluloid comb); attends a machine in which two combs are cut out of each blank, with teeth interlocked; places blank in position in machine and operates machine by means of lever.

washer (celluloid sheet); places cut sheets in slotted frames and immerses them in successive baths; *cf.* washer (149).

whalebone finisher; scrapes, with hand knife, polishes and sandpapers, by hand, cut lengths of whalebone to round off and finish for use.

xylonite collar maker, *see* celluloid collar maker.

Sub-Order 3. — Workers in Other Materials.

631.—FOREMEN AND OVER-LOOKERS.

head miller (linoleum, etc.); in charge of linoleum cork mill; directs cork grinders (639) *g.v.*; starts and stops series of breaking, disintegrating, scalping, milling and dressing machines, maintains smooth running by adjusting speed of machines and converters, does running repairs and is responsible for condition of finally cleaned and ground cork.

632.—FEATHER DRESSERS AND DYERS.

box maker (feather); general term applicable to any worker engaged in making feather boxes, including feather box curler, layer-up (638), sewer (638), feather box steamer, and box trimmer *g.v.*

box twister (feather); foister and steamer (feather box); takes one end of seven chain of feathers forming box, and hooks one end over an attachment on a small wheel; turns handle, causing wheel to revolve; passes hand rapidly up and down revolving box, giving a slight twist to feathers, and at same time freeing fronds and stuffing them out; usually also steams box by means of boiling kettle fitted with long stem; *cf.* box steamer.

curler, feather; receives previously steamed feathers, either singly or sewn together, or receives feather box for curling; draws fronds, and does (i.e. fronds, not fully grown) bend, straight, and blunt curling knife; also assembles and wires feathers to form sprays, and covers wiring by binding round strip fabric and gluing down end of strip; often also does work of feather steamer *g.v.*

curler, feather box; ostrich feather curler, *see* for curler, feather.

dye, black (feather); a specialised feather dyer *g.v.* solely engaged on dyeing feathers black; mixes and bleeds special materials so as to obtain most brilliant black dye possible; varies treatment according to

properties of dye and strength of feathers in batch to be dyed, taking care to make fronds stand out thickly, and not to let feathers be thinned during process.

dye, colour (feather); a feather dyer *g.v.* who dyes feathers in various colours; duties generally similar to those of black dye, except that dye materials used are different.

dye, feather; dyes feathers to pattern, sometimes producing spot or shot effects on feather; carefully chooses, mixes, or blends dyes, having regard to action of various dyes on feathers; heats dye in mixing vat, and at required temperature, immerses one feather for testing purposes, watches and times process; takes feather out of dye, washes it, dips it into trough containing starch, rubs it in farin to remove moisture and to stiffen fronds, i.e., fine, and dries it in drying frame, to immerse entire batch, with such modifications in above process as may be necessary to obtain exact shade required; hangs feathers on hooks attached to revolving cylinder, which beats them lightly against a board to remove superfluous starch; sometimes polishes parts of feathers, so that they may or may not take up dye, or otherwise varies treatment.

feather beater; beats feathers on a board by hand to remove moisture and starchy substances after dyeing, where machinery is used, work is usually done by feather dyer *g.v.*

feather bleacher; mixes bleaching solution according to requirements of particular kind of feathers to be treated and immerses feathers in solution; removes them and dries in drying room; rubs them in farin, if necessary; sometimes does work of feather dyer *g.v.*

feather cleaner, ostrich feather cleaner, *see* feather washer.

feather dresser; general term applied to worker engaged on any process used in connection with feather dressing, and including cleaner, curler, twister, *g.v.*

feather maker, ostrich feather maker; general terms applied to any worker engaged on preparation of feathers for use in connection with articles of dress, including feather curler, feather dyer, feather bleacher, feather trimmer, feather washer, *g.v.*
feather stringer; removes pith from base of feather with a knife; cuts away any dye, i.e., frond, not fully grown, ties together two or three feathers in a group; fastens several groups in a row at one end of string to facilitate handling during processes of washing, bleaching, dyeing, etc.

feather washer, ostrich feather washer; feather cleaner, ostrich feather cleaner; (i) (preliminary) places feathers in revolving washing machine filled with water containing soap or washing powder; removes feathers when thoroughly washed and places them in revolving dryer; takes feathers from dryer, and hangs them in hot chamber to dry off; (ii) (*after drying*) when feathers are dry from dye, dips them in a mixture of soap and water, pulls them through the soaked hands and places them in tank of water to soak for several hours before putting them in drying room.
feather worker, plumassier; general terms for workers engaged in bleaching, cleaning, curling, dressing or dyeing feathers; *cf.* feather worker (638).

plumassier maker; makes small plumes or cigarettes by twisting, by hand, steep uncured tips of feathers over steam until feather is twisted all the way down.

steamer, box; feather box steamer; receives box from box twister *g.v.* and allows jet of steam to play on it at any desired points, by control-

ling direction of steam; dries hose by passing it over steam pipes, repeats process after each repetition of winding operation; sometimes also does work of feather steamer *q.v.* steamer, feather; allows jet of steam, direction of which she controls, to play upon feather; with other hand, passes feather as required, by pressing and bending it.
twister and steamer (feather hose), see lion twister.

633.—DRAWERS AND BRUSH MAKERS.

artist's brush maker; camel hair brush maker, camel hair pencil maker, hair pencil maker, hair pen maker; makes brush throughout—combing, sorting, and mixing hairs; binds with thread and fixes into ferrule or quill with shingles or canvas; camel hair brush maker, camel hair pencil maker, camel hair pen maker, see artist's brush maker.
bone brush maker; a drawer *q.v.* making tooth or other brushes with bone backs or handles; *cf.* tooth brush maker (618).
bottle brush maker; a wire brush maker *q.v.* making spiral brushes for cleaning bottles.
bristle drawing hand, see drawer.
camel hair brush maker, camel hair pencil maker, see artist's brush maker.
carpet broom maker, carpet brush maker; a pan hand *q.v.* who fills broom stock with whisk or stiff bristles or fibre.
copper stock hand, see painting brush maker.
cycle brush maker; a wire brush maker *q.v.* making wire brushes for cleaning bicycles.
drafter, see drawer; *cf.* drafter (638).
drawer, drawing hand; bristle drawing hand, drafter; inserts bristles, etc., in prepared holes in brush, and fastens them therein with wire wound round base of bristles and laced at back of brush.
drawer, hose; makes hose brushes for use in water, by passing wire through hole in wooden stock, and hose through loop of wire; tightens wire, then doubling hose and drawing it into a knot.
fibre broom maker; a pan hand *q.v.* using tufts of fibre.
filler, machine filler, machine borer's plate filler; machine brush head, machine brush orderer; attends to machine which fills holes in back of brush with bristles; feeds machine with bristles and wire, positions brush stock, and pulls lever causing bristles to be pressed and stepped automatically in stock; sometimes specifically designated according to material used, *e.g.*, brush filler, fibre filler.
fine tool maker; makes decorators' and grainers' brushes throughout, sorting and dressing hair, binding it together, and setting it in ferrule with fine glue or cement.
flat hand; mason brush maker, mason hand, soiled stock hand, nailed stock maker, whitewash hand; makes flat brushes, *e.g.*, whitewash brushes, stone mason brush maker, arranges bristles round stock, wire handles or metal strip tightly over all and secures by nailing; *cf.* painting brush maker.
fine brush maker, see wire brush maker.
glue and paste brush maker; makes brushes in which bristles are inserted in ferrule by a paper wrapping, which is removed after bristles are inserted; work usually done by painting brush maker *q.v.*
grainer's brush maker; a fine tool maker *q.v.* who makes special brushes used by painters for staining, mottling, over-graining, etc.
hair pan hand, hair broom maker; a pan hand *q.v.* using bristles, or a mixture of horse hair and bristles.
hair pencil maker, hair pen maker, see artist's brush maker.

ivory brush maker; a drawer *q.v.* making hair brushes and other fine brushes with ivory backs.
machine brush hand; (i) see filler; (ii) see mill machine brush maker.
machine brush stapler, see filler.
machine drawing hand; a drawer *q.v.* who feeds and operates a machine in which brushes are made by drawing metal; keeps machine fed with bristles and inserts and removes brush blank at each operation.
machine soale brush maker; a machine drawing hand *q.v.* who makes special brushes of wire, instead of bristles, by drawing method, to be used for setting castings or for removing scale (incrustation) from boilers.
mason hand, mason brush maker, see flat hand.
mill machine brush maker; machine brush hand; a pan hand *q.v.* or a drawer *q.v.* who makes special types of brushes for use in machinery such as textile printing, flour milling, etc.) either by pan method or by drawing method.
nailed stock hand, nailed stock maker, see flat hand.
painting brush maker, paint brush hand, paint brush maker, painter hand, paint hand; copper stock hand; affixes bristles of painting brushes to handles by resin or cement; binds them tightly, by hand or machinery, with wire or glued string; and/or frames bristles (or hair) and stock; sometimes sorts bristles into lengths, as for hair hand (638), before binding; sometimes also does work of flat hand *q.v.*
pan hand; dips knot or tuft of whisk, hair, fibre, hair, etc., into pitch, binds end with wire, re-dips in pitch and inserts in wooden stock.
sash tool maker; makes small round paint brushes with one tuft or knot of bristle secured to handle by metal or string binding.
scale brush maker; makes, as for drawer, special wire brushes, used for fettling castings or for removing scale (incrustation) from boilers.
scratch brush maker, see wire brush maker.
shaving brush maker; makes shaving brushes, by inserting thick tufts of hair, carefully sorted and dressed, in metal ferrules, or in bone or ivory holders, and securing them with cement.
soiled brush maker, as for fine tool maker.
stapling brush maker; a fine tool maker *q.v.* who sets knots by "pan" method into flat boards for painter's stippling brushes.
tube brush maker, as for bottle brush maker.
varnish brush maker; makes round, oval or flat brushes for use in varnish or enamel work, by binding bristles to handle, by wire or glued string.
whisk maker, whisk broom hand, whisk pan hand; (i) a pan hand *q.v.* who makes small whisk clothes brushes; (ii) a drawer *q.v.* who makes whisk brushes.
whitewash hand, see flat hand.
wire brush maker; (i) fine brush maker; makes spiral brushes, the material (hair, whisk, bristle, etc.) being held tightly between two or more wires twisted together which form the axis of the spiral; (ii) scratch brush maker; makes brushes by a drawing process (see drawer) in which wire is substituted for bristles.

638.—OTHER SKILLED WORKERS.

agate splitter, see stone splitter.
amber turner; turns on lathe, and sets into suitable sizes and forms amber and imitation amber; turns into beads, and drills for stringing, amber used in jewellery; uses automatic lathe, or semi-automatic lathe and hand tools, according to individual skill and type of work involved.

amber worker; cuts, drills, and polishes, by hand, or by machine, amber for use in necklaces, brooches, etc.
bass comb; a bass dresser *q.v.* who is engaged solely on combing bass; *cf.* oiler.
bass dresser; hackles bass by drawing it across a buckle, composed of several rows of coarsely set steel teeth, which straightens bass and removes tangles; cuts bass into lengths by means of hand knife or by mechanically-driven cutting machine, makes different grades finally straightens bass by drawing it across fine-toothed "bass comb," and ties up into bunches with cord; if necessary, dyes bass in boiler or vat of dye before backing; in some firms does not backle.
black ornament maker, black ornament worker; a gem cutter *q.v.* who cuts and grinds jet to make jet ornaments and jewellery.
block printer; printer (floorcloth, etc.); spreads paint or colour, which has been prepared by colour mixer (162) *q.v.*, on a flat sheet, ink, or coloured wooden blocks by lightly impressing these sheets upon them; unpresses blocks to prepared on length of floor cloth (about 4 feet) stretched on a bench, using guide or clamps to ensure accuracy in placing blocks; if necessary, to give additional pressure, uses hand-manipulated screw press.
bowl cake maker; calender bowl cake maker, mangle bowl cake maker; lays cotton in a circular cake and puts it under a power press to form it into round-shaped cakes, which are afterwards assembled into "bowls" or "rolls."
bowl press man, bowl maker (soften bowls); calender bowl press man; assembles bowl cakes in heavy hydraulic press, and operates press to press cakes together, to drive metal shaft through, and to fix metal ends so to complete bowl, or roller, ready for turning, grinding and buffing.
buff-lantheer; a diamond polisher *q.v.* who cuts small facets on stone.
bristle comb; a hair hand *q.v.* engaged only in combing bristles on coarse hand comb; *cf.* oiler.
bristle dresser, see hair hand.
calender (and mangle) bowl cake maker, see bowl cake maker.
calender (and mangle) bowl press man, see bowl press man.
calender man, see linoleum calender attendant.
charcoal burner; wood coiler; burns timber in a muffle, or closed furnace, which reacts it, to make charcoal, without allowing complete combustion; sometimes works in a wood or plantation when usually timber cut to suitable uses is specially stacked in form of a cone and overlaid with earth and turf; controls rate of combustion by regulating inlet of air; *cf.* wood distiller (145).
cleaver (precious stones); applies blunt steel knife to line previously scratched with diamond or harder stone on precious stone (set in wax), and splits stone by hitting knife with small mallet; sometimes specifically designated, *e.g.*, diamond cleaver.
comber (brush making); a bass comber or bristle comber *q.v.*
cork burner; places slab of cork upon a grid over an open fire, and heats them until rough fibre is removed and cracks sealed; cleans pores of burnt cork by throwing cold water thereon; brushes off superfluous cork; slices fire.
cork collar; ties up raw cork in bales with hoop iron.
cork dockar; shortens pieces of cork either with hand knife or hand-operated guillotine; *cf.* cutter, cork (hand).
cork machinist, see cutter, cork (machine); *cf.* cork machinist (638).

cork notcher; cuts cork into squares and shapes small enough to fit different cutting machines, using hand notching knife fitted with adjustable gauge; is usually also a cork cutter *q.v.*

cork rounder, *see* cutter, cork (hand).

cutter, cork (machine).

cork sorter; sorts out cork sheets or finished corks according to size, shape, and quality, relying only on personal judgment.

cork turner; makes articles of cork (or cork composition) by shaping them on a lathe; as for turner (486).

cutter, cameo shell cutter; cuts, carves, and engraves suitable designs in shell (generally head images), as used for mounting in brooches, rings, scarf pins, etc.

cutter, coral; coral grinder, madrepore cutter, madrepore grinder; cuts, grinds, and polishes various formations of coral, beads, ornaments, etc., using automatic lathe, or semi-automatic lathe and hand tools, according to individual skill and type of work involved.

cutter, cork; cork rounder; (i) (hand) cuts cork wood squares by hand, using knife fitted with adjustable gauge; also required sizes and shapes for bottle corks, etc.; sometimes also does work of cork decker, cork notcher *q.v.*; (ii) (machine) cork machinist; cuts bottle corks, etc. out of squares of cork wood in a lathe; presses cutting tool against revolving cork until cork is cut to desired size by foreman; starts and stops lathe by hand lever; is usually also a cork notcher *q.v.*

cutter, diamond; fine diamond received from cleaver, or sawyer, in revolving chuck, and, by means of diamond set in handle, roughs out conical surfaces ready for faceting by diamond polisher *q.v.*; *see* also brillianter, and squarer.

cutter, gem cutter, precious stone cutter; gem grinder, grinder lapidary; forms gem of precious stone to required shape either by cleaver (see cleaver), by cutting or by rubbing on edge of copper or lead "laps," i.e., discs, with constant application of lubricant and abrasive to stone and disc, by hand; turns handle or works treadle to drive disc; presses stone against disc in cutting, etc., or, small, fine cements it in a pencil-like support; polishes stone similarly, using rotten stone instead of abrasive; sometimes specially named according to gem cut, e.g., amethyst cutter, malachite cutter, sapphire cutter, opal cutter, oriental stone cutter, pebble cutter, ruby cutter, sapphire cutter, serpentine cutter, spar and fluor spar cutter, lapis cutter, turquoise cutter; sometimes does work of stone slitter *q.v.*

cutter madrepore, *see* cutter coral.

cutter, quill pen; as for tooth-pick maker (393); *obsolescent*.

cutter, serpentine, *see* serpentine worker.

designer and transferer, designer (floorcloth); designs and draws out on paper patterns for linoleum and oil cloth; paints patterns to scale or to exact size, in colours suitable for floorcloth or linoleum production, also does work of transferer *q.v.*

diamond cleaner; cleans finished stone in warm diluted nitric and sulphuric acid; washes stone in water, then in spirit, and dries with polishing cloth.

diamond die driller; diamond wire driller; taps holes in diamond dies used for drawing small gauge wires; works in holder, with splitter, drilling, or tapping, diamond, and secures in machine over diamond to be drilled; starts and stops machine by lever, and feeds point of tapping diamond with oil and diamond paste.

diamond mill cleaner; *skiff* (three) cleaner or polisher; renovates worn surface of cast iron discs on which

diamonds are polished by applying series of sandstone rubbers, coarse at first, then fine.

diamond polisher, diamond dresser; dresser; puts facets (usually 56) on diamonds, recovered from diamond cutter, *q.v.*, by resting it upon rapidly revolving cast iron disc on which is placed cutting medium of diamond dust made into paste with olive oil; in some cases forms only first 16 facets, remainder being added by finisher *q.v.*

diamond sawyer; sawyer; places diamond in chuck, and saws along lines, marked out by works manager, by means of a rapidly revolving disc of phosphor bronze to which a cutting edge of diamond dust and olive oil is applied.

diamond sorter; sorts or grades diamonds of equal quality into sizes, weighing on delicate balance.

diamond wire driller, *see* diamond die driller.

die dresser, die polisher; *see* a diamond die driller *q.v.* who, using a drilling diamond tool, re-cuts and enlarges, i.e., renews, worn diamonds due to use of larger size.

drafter (horse hair); (i) horse hair drafter, sewer; washes horse hair, sorts it, and distinguishes from bristle, *see* hair brush with soap in hot solution of soda and water; dries hair in hot air chamber, and throws hair over a huckle, drawing hair through the coarse steel teeth to straighten it, levels root ends of hair, and places them in carding machine composed of fine steel teeth; grades hair into lengths, starting with longest hair, by dragging hairs of equal length from the machine; bunches the various lengths and ties up with cord; (ii) *see* line drafter; (iii) *see* also drawer (535).

drawer-off; *pusher-off*; cuts cork lengths to required thickness either on circular saw or with hand knife fitted with adjustable gauge.

dresser, *see* diamond polisher.

dresser (brushmaking); general term sometimes applied to *bam* dresser, *fine* drafter, hair hand *q.v.* and also drafter *q.v.*

engine comb hand, bristle engine comb hand; a hair sorter *q.v.* engaged only on machine combing; regulates and feeds comb which brings together root ends of bristles and takes out rough ends; *obsolescent*.

examiner (brush); examines visually completed brushes for defects in material used or in workmanship, before boxing.

fancy finisher; shapes wooden stock of fancy brushes with file, knife, or sandpaper; gives back to brush after it has been drawn, and finishes edges.

fancy trimmer; cuts ends of bristles in tooth brushes, with scissors, to give a serrated or other shaped finish.

feather scraper; scrapes pith from ribs of feathers in order to render them more pliable, by (i) drawing each feather between two small revolving scrapers, worked by a treadle machine; (ii) scraping ribs of feathers by hand, with a scraping of glass.

feather worker; general term for any worker engaged in laying-up department, including layer-up, knetter, wrier and paperer, sewer, machinist *q.v.*; also as stretcher down *q.v.* or in otherwise working feathers for any purpose; *cf.* feather worker (635).

fine drafter, fibre dresser; drafter (horse hair); sorts fibre and throws out badly coloured strands; straightens and cleans fibre by drawing it over a huckle (coarse one and, leaving ragged ends toothed comb); levels fibre at both ends, and places levelled ends in carding machine composed of several rows of fine steel teeth; from varying lengths of loose ends, draws off equal lengths of fibre, and ties them into bundles with cord; if necessary, dyes fibre in a boiler or dye vat before backing.

finisher (brooms and brushes); shapes brush back with band saw, spoke-shave, and draw-knife; sandpapers and finishes generally, glues it, and sometimes also sews it to brush; places backed brush in vice to secure glazing.

finishing machine hand; a finisher (brooms and brushes) *q.v.* operating shaving and sandpapering machines only.

float maker (fishing); (i) mole, cuss and pieces together cork or wood fishing line floats, using hand cutting and smoothing tools; sometimes drills floats, hand or machine drill, and inserts quill; (ii) female, reservoir fronds from feathers, trims to shape and paints, using knife and paint brush, to make quill fishing line floats.

grainar, table balise grainar; attends table balise graining machine assisted by buck tender (539) *q.v.*; places roll balise, recuts and dresses it, and trowels (635) *q.v.*, in position in graining machine; feeds balise to graining rollers, delivery roller, etc.; operates machine by hand levers.

grinder, cameo; grinds and finishes, on a lathe, engraved reliefs, after cutting by cameo cutter *q.v.* and fits them into standard sized gauge, by means of hand tools for subsequent fitting into jewellery; *obsolescent*.

grinder, coral, *see* cutter, coral.

grinder, madrepore, *see* cutter, coral.

grinder, gem grinder, *see* cutter, gem; sometimes specifically designated, e.g. californium grinder, carbuncle grinder, cat's eye grinder, kaiser grinder, jet grinder, malachite grinder, onyx grinder, pebble grinder.

hair hand, hair dresser, hair mixer, hair sorter, bristle dresser; dresses bristles, i.e., hog hair, badger hair, or whale whiskers (as distinct from hair, *see* drafter); combs and cleans bristle by dragging it across a coarse comb; grades bristle, places it in layers, and mixes grades by again drawing bunches, each containing different layers, across vertical toothed comb; passes bristle over a sieve to separate root ends from top ends, and sorts it into lengths by selecting longest lengths and removing them from bunch between thumb and knife; sorts out various thicknesses of hair, *see* dragging bristles over an engine comb, spaces between teeth of which vary; ties up root end of engine bristles, may also wash and stone bristles, *cf.* washer (638).

hand troweller; troweller, troweller. trowler; spreads mixture of boiled oil and colour, by hand, with trowel and stiff brush over surface of cloth, canvas, oressian, in manufacture of floor cloth, oilcloth, table balise, or leather cloth; *see* also machine troweller (539).

hanger; attaches rolls of linoleum and oilcloth to rollers on gears which are situated above roofs of "stores" (large buildings heated to 100°-120°F.), where they are left for several days to dry and harden.

hanger (leather cloth); arranges wet leather cloth, in lengths of about 150 yards, after it has been soaked or backed, for drying in hot room, taking care that wet surfaces do not touch.

horse hair drafter, *see* drafter (horse hair).

inlayer of marble; a gem cutter, *q.v.* who also cuts and cements marble-like Jasper to form inlays, vases, boxes, etc.

jet ornament maker, jet worker; a gem cutter *q.v.* who cuts and grinds jet for black or jet ornaments and jewellery.

knot picking machinist, knot picking machine hand; operates hand machine which selects quantities of material (bristle, hair, etc.) required for any size "knots," in broom and brush trade.

knitter; knots additional lengths of fronds to each side of feather and snaps off loose ends close to knot with shears, or cuts off part of fronds from one feather and milles them with those of another feather to make artificial combinations of black and white, or variegated feathers; sometimes cuts off outside half of fronds on two feathers and transposes cut fronds by knitting; may slit feather down centre of ribs and sew it on to half of another feather similarly slit.

kreus worker, *see* **squarer**.

lapidary, *see* **cutler**, *gem*.

layer-up, feather layer-up (feather heavy) receives (1) pairs of feathers, which have been cut up by forewoman (631) *q.v.*; scrapes path from ribs with a piece of glass, or for feather scraper; makes diagonal cuts in ribs, so that cut in rib of one feather fits into corresponding cut in rib of another feather; reverses, fits pieces together and sews round and through joint with needle and thread; sometimes also does work of knitter *q.v.* or does wiring and papering, sewing or machining.

life belt maker (cork), life buoy maker (cork); (i) parts cork, reverses and shapes cork slabs to make life belts, and covers them with case of canvas; sews them into place with palm and needle; (ii) cuts blocks of cork and inserts them in series of canvas pockets in belt; may sew into place with palm and needle, but this is not done by machines (419).

linoleum calender attendant, **linoleum calenderer**; **calender man**, **roller floor hand**; attends calender machine which spreads cork composition uponessian; regulates composition thickness by adjusting roller lever or screws; regulates roller temperature by steam cocks; ensures that composition passes correctly through machine.

machinist, feather; receives rack of feathers from stretcher down *q.v.* and passes it under double needles of treadle sewing machine, which sew round ribs of feathers; keeps feathers in position during sewing and takes care that lengths of feather are sewn evenly together; passes feathers to him twister *q.v.*

mangle bowl cake maker, *see* **bowl cake maker**.

modeller; carries out with hand engraving tools designs of modallion in wax or other soft substance, from which subsequently plaster impression for metal cast is taken; is sometimes also a designer.

modeller; models and prepares any plaster work, papier mâché, or other modelling required in film studio; in engineering works makes models from which iron patterns are made; sometimes specifically designated, *e.g.* statues modeller, **slit table cover printer**; a printer *q.v.* engaged in printing oil table covers, or table bases.

pearl stringer; measures for size and matches for colour by eye pearls of a necklace or pendant strings in proper sequence, gradates with gauge, and weighs on delicate balance, and fits clasp, by hand.

plasterer; term sometimes applied to any worker in bass, *e.g.* bass dresser, bass pan hand *q.v.*; plaster is a form of bass.

plaster cast maker; makes plaster casts, for use in reproduction plaster coating, by running plaster-of-Paris into a case or mould containing a model of object to be cast.

plaster image maker, *see* **plasterer** (shop hand); *cf.* **plaster image maker** (574).

plasterer (shop hand), plaster modeller, plaster model maker; plaster image maker; makes models and effigies in plaster of Paris by hand, using fine moulding tools, when necessary, repetition work is carried out by working upon models obtained from casts.

polisher, **gem polisher**; polishes, with fine powders, rouge, etc., on revolving copper disc, finished gems before, and sometimes after, setting. **printer** (polisher) or hand-floorcloth, etc.; sometimes specifically designated, *e.g.*, floorcloth printer, house painter; (i) operates, by belt levers, switch, etc., a rotary machine which prints patterns on oilcloth or linoleum by means of engraved or cut rollers fed with various oil colours; places rollers in correct sequence in machine, fills colour troughs, guides linoleum and through various colour rollers and on to final winding-on roller; (ii) attends flat type linoleum, etc., printing machine, or for (1) (i) *see* block printer; (iv) turns hand wheel, causing rollers to revolve in troughs of paint to small hand machine for printing cheap oilcloth; guides end of floorcloth to rollers and maintains paint supply in troughs.

publisher, *see* **drawers-off**.
purifier, feather; weighs cut feathers and empties them into three or four machines which he attends; controls valves which admit steam among feathers to sterilise them; removes feathers when process is complete; records weight of feathers passing through machines.

putter-in; inspects linoleum after laying and cuts and inserts missing pieces; uncalls whole line in stems heated press and feeds to mechanically driven drum for winding into rolls.

roller, floor hand, *see* **linoleum calender attendant**.

sawyer, *see* **diamond Sawyer**.
tachy (shiv) cleaner, polisher, *see* **diamond mill cleaner**.

serpentine worker; **serpentine cutter**; cuts serpentine (hard rock found in Cornwall) into paper weights, namkin rings, and other fancy articles.

setter-up, *see* **verstealer**.

sewer, feather; (i) sews together a number of feathers of various colours and sizes, selected and grouped by forewoman (631) *q.v.*, to form sprays; (ii) sews feather bass, after twisting and turning, on to fabric support by sewing down rib of bass with running stitch; places a number of bass side by side on fabric; places a lining of felt or similar material against fabric support, and puts a further layer of fabric on to that to form a back; sews edges of back over lining to cover all over of fabric on which he is stitched; sews down lining by stitching it to back.

sorter (brush making); may be either a bass dresser, a hair hand or fibre dresser *q.v.*, sometimes specifically designated, *e.g.*, hair sorter, hair sorter apax and floor apax ornament maker, ornament turner, or fur cutter, *gem*, **squarer**; **kreus worker**; a diamond polisher *q.v.* who cuts large facets on the stone.

stone slitter; **apax slitter**; slits stones or apaxes by passing them over a revolving thin steel tip which he feeds constantly with rough diamond dust and oil and drives by treadle; *cf.* **cutler**, *gem*.

stretcher-down (feathers); prepares parts of feathers for machinist *q.v.* by pressing ribs between pins lengthwise along a long rack, and spreading and stretching fronds between pins on either side; arranges feather pieces so that, where necessary, ends should overlap.

table base painter, or for hand troweller.

toothpick maker (quill); cuts and parts toothpicks from quill barrels, using hand knife, dresses and points quill toothpicks, by hand-operated quillstone; *shalecent*.
transferer (linoleum, &c.); places patterns prepared by designer and transferer or by designer, on either flat block or roller, usually wooden, and traces patterns thereon with special knife, for use of block cutter (608) *q.v.*

trowler (table base), *see* **hand troweller**.

trimmer (brooms and brushes), **bristle trimmer**; trims by hand with shears or scissors, irregularities in length of bristles, etc., in brush stocks after filling.

trimming machine band; a trimmer *q.v.* who feeds and operates a bristle trimming machine.

troweller, **trowler**, *see* **hand troweller**.
verstealer; **setter-up**; sets or embeds diamond in solder, contained in a holder, with corner which has to be ground off to form facet exposed ready for polisher or finisher *q.v.*

wax doll maker; casts bust of doll by pouring molten wax into two moulds each representing one half of bust; when casts are cast joins them together by melting and sealing edges; when joints are set, scrapes off mould marks and roughnesses with sharp knife.

wax figure cleaner; cleans up wax models used for display purposes by washing them with very hot water, soda and soap; retouches complexion, etc., with colour as necessary.

wax modeller, **wax figure maker**; makes wax models with modelling tools and scrapers or by casting in moulds; ensures them to give them a more life-like appearance.

writer and **paperer** (feathers); (i) pierces bottom of rib of feather with an awl; passes wire through hole and turns ends down on each side, parallel; with cutting line of rib cut or breaks fabric binding over rib and winds it on wire to form support or continuation of rib; (ii) twists wire round end of rib and binds as described, above.
wood collier, *see* **charcoal burner**.

639.—OTHER WORKERS.

backer (linoleum, &c.); a machine troweller *q.v.* engaged in spreading paint only as a back of linoleum, i.e., not separately applying linoleum adhesive.

back tender; avoids grainer or primer (floorcloth) (638) *q.v.*, engaged on rotary printing machine; regulates cloth as it passes through machine and does any manual unskilled work, as directed.

bass cutter, *see* **bass trimmer**.

bass dyer; colours bass, used in brush-making, by soaking it and boiling it in dyeing vat.

bass hackler, **bass heckler**, **bass rougher**; draws bass across a hackle to remove tangles in preparation for dressing; *see* **bass dresser** (638); occupation unknown as bass is usually imported already hackled or is hackled by **bass dresser**.

bass mixer; mixes bass on foot as required prior to dressing; usually done by **bass dresser** (638) *q.v.*

bass trimmer, **bass dyer**; cuts bass to length, required for brush, using hand knife or guillotine operated by a hand lever.

thead and **bugle stringer**; strings beads and bugles for making bead necklaces etc.; sometimes first ornaments plain beads by attaching gold wire, using pins and hand tools, hand painting, etc.

beater; beats feathers on a board, by hand or by machinery, to remove dirt and slurry substance after drying.

bleacher, **stock bleacher**; bleaches bass and similar fibres, for making into brooms and brushes, by immersing them in bleaching solution and removing them when operation is completed.

brake binder, *see* **machine troweller**.

bristle baker; bakes an oven in which washed brush bristles are dried.

bristle cleaner, *see* **washer**.

bristle dressing machine hand, **bristle mixing machine operator**; feeds and watches for smooth working, a automatic machine which mixes and cleans bristles.

and "beams-up," i.e., feeds material to winding-on roller; where adhesive is applied, repeats spreading operation on reverse side of fabric; starts and stops machine by hand levers; opens and closes cocks to regulate paint supply, etc.; see also hand troweller (635).

mill hand (carbon), see mixer, carbon.

mixer (brushmaking); a box mixer or bristle mixer *q.v.*, or rarely hair mixer, of hair band (633).

mixer, carbon; see **mill hand** (carbon); crushes retort carbon into dust in a mill and, attends and feeds mixing pans wherein crushed carbon is mixed with binding liquid prior to being moulded into blocks, rods, etc., for use in dynamite, etc.

mixer, linoleum, see colour blender and dresser.

mixer, cork mixer, **deub mixer**, **linoleum mixer**, **ground cork**, **linoleum cement**, and **colour**, by machine fed by charger (linoleum mixing) *q.v.*, producing a "cement" which is spread upon canvas or jute in the manufacture of linoleum; adjusts roller temperature by steam cocks and oil machine.

motor brush maker, as for carbon brush maker.

moulder's black maker, see founder's black maker

oil haira maker; a machine troweller *q.v.* engaged in making oil baine by spreading a thickened oil paste upon fabric.

oil cover dresser, see machine troweller.

paint brush finisher, **paint brush stamper**, **paint brush trimmer**; performs, after brushes are made, such operations as cleaning handles, trimming bristles, stamping size, name, etc., boxing, papering, labelling, etc.

painter (finishing coats); paints, with small brush, bands of light oil colour round cork or wooden floors.

parquet layer; **layer**; *q.v.*; arranges strips of oak linoleum for parquet inlay in patterns to represent wood floorings.

peat moss mixer worker; general term for any worker engaged in cleaning, sorting, drying, and baling peat moss (used as litter for animals); cf. **peat moss worker** (436).

plate holder (leather cloth), **plaster**; see colour spreader and assistant.

pointing hand; straightening hand; straightens naturally curved bristles, before or after filling into bundles of brushes, by bending with string and steaming.

pole carrier, **pole catcher** (linoleum), see banger's mate.

polisher (brushes); (i) polishes varnish, or decorates in any way, the brush after it has been shaped; (ii) see also horse brush polisher (639).

pressman; presses loose granular coloured composition, in patterns for granular inlay, on canvas or jute in a hydraulic press, to squeeze them solid and attach to canvas or jute; presses loose sheets of linoleum, built in a block for parquet inlay, in order to squeeze them solidly together for cutting into strips by guillotine; presses parquet pattern arranged by parquet layer *q.v.* on to canvas or jute so as to attach pattern thereto.

pumice man, see rubber.

punching machine filer, **punching machine worker**; attends an automatic punching machine, which punches holes in back of brush for insertion of bristles; positions stocks in machine and pulls lever operating punch.

putty (finishing coats); promotes, with putty knife, putty into indentions in wooden or cork finishing coats, to ensure water-tightness.

quill cutter; general term covering cutter, quill pen (638), float cap maker, toothpick maker (quill) (636) *q.v.*

quill rubber (feather dressing); polishes or smooths quills of feathers by hand with pumice or sand paper.

rubber; **pumice man**; rubs painted surface of oilcloth, to make smooth, by means of rotary rollers in which are fixed pumice stones, only carried out on heavy linoleum.

scrap grinder; feeds scraps of waste linoleum into grinding machine to be used again in linoleum making.

seasoner hand (linoleum, etc.); controls cocks, levers, etc., of machine finally mixing linoleum mixture, and oils machine as necessary.

seasoner attendant; **charger**, **discharger** (linoleum seasoning); seasons (linoleum in long stave; attaches linoleum to wire and turns hand roller, draws length of linoleum into stave; with knife and straight edge cuts linoleum when its length fills stave; regulates heat of chamber by steam cocks, guided by thermometer; withdraws seasoned linoleum by wire and hand roller.

shakes-up hand; (i) a dresser *q.v.* who brushes and shakes up by hand brush and broom bristles, etc., in the finished bundle so that ends do not present an uneven surface; (ii) sprays bristles for special finish, with root ends and points together in equal proportions; thus produces a stiffer brush than if roots only are in stock.

slaver, **bristle slaver**, **slaving hand**; passes bristles over a stone to separate root ends from top ends in process of arranging bristles all one way; usually done by hair hand (638) *q.v.*

spreader, **spreading machine attendant**, see machine troweller.

stamper (brooms and brushes); stamps same of maker, quality, size, etc., of brush, on the stock or handle.

stamper (leather cloth); (i) stamps particulars of quality, trade mark, etc., on back of pieces; (ii) see **grinder**.

stained filler; pours blended granular coloured linoleum composition, for granular inlay, through pattern stencil on to jute or canvas, pulling lever is govern flow of composition; changes stencil and use different composition as necessary, pulls lever or otherwise starts machine to which he feeds material for annealing.

stone handler, see washer

stove worker; drying stove hand, **hot room hand**; removes finished floor doct goods from stove, or hot room, and rolls strips of linoleum on rollers.

straightening hand, see pointing hand.

straw hand spinner, **straw rope maker** (for corse), **straw rope spinner**, see hay band spinner.

straw envelope maker; attends and feeds machine making straw envelopes for covering wine bottles, etc.; places bottoms of jute in machine, threads jute through guides, etc. starts machine by hand lever, and feeds straw, by hand, so that it is twisted up and bound with jute; rare occupation.

straw worker (targets); makes straw targets by intertwining rush, straw, etc., on stick foundation to form back and main body of targets; superimposes rushes, straw, etc., smoothly over sticks to form smooth face of targets.

brusher; common finisher; flares back of brush to cover wiring of drawn bristles with glue and brass nails or screws.

tank cleaner (floor cloth); a general labourer who cleans out oil tanks, etc., in floor cloth mill.

trimmer, see cloth cutter.

varnisher (oilcloth, etc.); operates varnishing machine which puts a glossy finish on surface of printed or plain oilcloth; guides end of linoleum over bars, etc., of machine to rollers revolving in varnish trough; guides end of varnished linoleum to winding-on roller, operates machine by hand, etc., maintains varnish supply in trough.

varnisher (brushes), **brush varnisher**; varnishes brush stocks, heads, or backs.

washer; (i) washes loose horse or goat hair in hot water, containing soap and soda to cleanse hair and remove grease; (ii) bristle cleaner, stone handler; "stones" bristles, i.e., grinds down root ends, by rubbing them on a leather-covered stone; ties up bristles and places them in hot air chamber to dry, usually done by hair band (638) *q.v.* in small factories.

ORDER XX.—WORKERS IN MIXED OR UNDEFINED MATERIALS (not elsewhere enumerated).

Sub-Order I.—Makers of Musical Instruments (not Piano, etc., Case Makers).

642.—ACTION MAKERS, FITTERS AND ASSEMBLERS.

action assembler; takes completed sections of piano action, *e.g.* butts, from covering department and screws them down on to action beam; and screws down dampers to damper rail; action is then ready for action finisher (pianos) *q.v.*

action finisher (concertinas), see action maker (concertinas).

action finisher (pianos); receives piano action from action assembler *q.v.* and takes "travel" or bias from working parts, i.e. makes them work true, looses or tightens setting of hammers by screwing or unscrewing parts; bends spring wire in bulks with his fingers, and finishes action generally, i.e. satisfies himself that it works properly, and is ready for use in piano making; cf. finisher (pianos) (655).

action fitter (pipe organ building); an organ builder (639) *q.v.* who screws, bolts and connects together, keyboxes, drill stops, and other component parts of organ actions, i.e. all mechanism between keys and pipes; sometimes also makes one or more parts himself; in new work, bolts down, couples up and rivets parts together, taking care to place and to space them correctly; in fixing up old work, examines old action and notes parts requiring renewal; makes, or directs to be made by other workmen, new parts required and fits together old and new parts; work sometimes involves soldering and soldering of pipes; in most factories is usually known as an organ builder *q.v.*

action maker; general term covering all workers engaged in any process of making or assembling piano or organ actions or parts thereof.

action maker, bottom (player pianos); makes main bellows of player pianos, glues them (flexible rubber canvas) on to sides of bellows, which are usually made with top and bottom of ply wood; makes reserve bellows for certain types of player pianos; fixes pedals and controls.

action maker (concertinas); action finisher (concertinas); assembles keys, levers, springs, pallets, and bellows to make complete action; places keys in holes bored in body and screws them into position; places levers in position, inserting springs and pallets under levers, screwing whole together where necessary; screws bellows to body of instrument.

action maker, French (pianos); an action maker *q.v.* fitting up actions working on a French principle.

action maker, top (player pianos); fits pneumatics (small bellows, one to each note) and connects up all pneumatic action in player pianos; fits music-roll winding gear.

action part maker (pianos); general term for workers who make wooden, wire and felt parts of piano actions by hand or by machine, including check maker, damper maker, lifter maker, small work maker, etc.

checker (pianos); connects with wire, by machine, two small wooden parts of piano action known as checks or piano levers; places wooden checks and wire in position in machine, and operates levers which set in motion mechanism making point.

check maker; cuts out of wood the two parts of a check used in check actions; connects the two parts with wire, see checker.

damper maker (pianos); cuts felt in shank, by hand, and glues it on to small pieces of wood (called damper woods) to make dampers for pianos.

lifter maker (pianos); cuts and shapes lifters, or pilots, from wood in machine room, and covers them with felt.

player assembler (player pianos);

assembles manufactured parts of pneumatic interior player action, and makes them into complete actions, using screw drivers and other hand tools, and, if necessary, glue, in readiness for action fitter, etc.; see action maker, bottom (player pianos) and action maker, top (player pianos).

regulator, action regulator (pianos);

makes final adjustments of action, after piano has left hands of finisher (pianos) (648) g.; brings keys into exact alignment, and makes space between keys and key-board correct and uniform; by tightening or loosening screws which hold each key in position; regulates balance of keys by adjusting screws at either end of spring affecting key balance; examines position of hammers, and adjusts position of relative levers and couplings to correct the position of any hammer that may be too far advanced; strikes notes in turn, to ensure that hammers fall back on to rest after striking strings; remedies faulty action by snooding, examining, pivoting parts, and easing their action where necessary, or by shortening levers, etc.; regulates, i.e. adjusts, dampers in same way, goes over whole mechanism in detail, making adjustments necessary to make it work with perfect ease and correctness, is usually a promoted finisher (pianos) (648) g.; sometimes also acts as toner (643) g.

small work maker, small worker (pianos, organs); an action part maker, g. who cuts small pieces of wood, by machine, to required shape, for use as piano or organ actions, and hammers holes in them with machine drill; sometimes also makes other small parts (wooden or metal) of piano or organ actions, by hand or by machine.

643.—PIANO TUNERS.

chipper-up; carries out first stage of tuning strings of pianos when partly finished; tunes strings into scales, with an ordinary scale key, but does not tune strings up to pitch; usually a learner or apprentice to piano tuning.

toner; a highly skilled tuner, g., who tunes and tones pianos, to ensure evenness of tone and perfect pitch, by pricking felted hammer heads to render them more sensitive.

tuner, piano tuner; (i) fits wires on to root pins; tunes and adjusts to required pitch by turning brass pins with tuning key, pliers and hammer, thus tightening or loosening wires; eases squeaking or sticking wooden parts by smoothing with graphite; (ii) is employed by manufacturers or retailers, or works on his own account, travelling about, and tuning and regulating (as in factory) pianos in private houses, concert rooms, etc.

645.—OTHER SKILLED WORKERS.

accordion maker, or for concertina maker.

edjstater (gramophones); adjusts position of worm-drive of gramophone motor with a watchmaker's (or other) screw driver, starts motor, and listens whether it is running silently and efficiently; if not, re-adjusts worm-drive until it is in exactly right position, and motor is running perfectly.

assembler, case assembler (gramophones); places zinc template on board forming inside top of gramophone case, marks, with pencil, size and position of holes to be drilled therein; drills holes, either by hand or, more usually, by drilling machine; inserts motor in case; pulls four corner screws of motor through holes drilled for them; puts on rivet heads and washers, and screws these on corner rivets, thus securing motor to motor spindle (over which record is placed) in vertical position; puts on turn table, and makes it run true by tightening, if necessary, corner rivets.

assembler, motor (gramophones); see gramophone fitter.

finisher-up (gramophone records);

solders metal backs to masters, to form solid plate for use in moulds.

finisher maker; (i) either hammer, measure, saws off and shapes neck by planing, spokeshaving, sand-

papering; checks and saws out wood to form body joint or flat scroll; cuts to shape and smooths with plane and rasp; chisels key, for larger holes, into neck and cuts groove for insertion of metal cross piece to indicate fingering; planes ends of piece of steam-bent wood for lapping, and glues ends together to form a hoop for sides of banjo body, finishes it with sandpaper, etc.; planes and sands back of volume together, to make arched back, and presses them to shape in a dry-beated metal hand press or mould; shapes, with hand tools, wooden support for arched back, glues veneer to this, and glues support to sides; ornaments body by cutting veneer or other inlay and inlaying; for processes, see cabinet maker (473) (ii) ordinary bunter, receives metal body, complete, from brass finisher (224) g., and lines it with steam-bent wood, which can be leaping and glues ends together to form a hoop, pushes hoop so formed into metal body when glue has set; makes neck of banjo, as for other banjo, and connects neck with metal body, usually by boring hole in wooden lining to correspond with hole in wooden shell, inserting wooden stick therein and screwing it into position; is usually a specialised cabinet maker (473) g.

bellows fitter (reed organs, etc.); fits bellows into reed organs with screws, etc.; sometimes also makes bellows.

bellows hand, bellows maker (pipe organs); an organ builder, g. engaged in making bellows for pipe organs; makes top and bottom frame-work of wood, with ordinary cabinet-maker's tools; cuts and fits leather valves and bellows, connecting them to top and bottom by cementing, gluing, etc.; varies or stains perle, as necessary; in some cases, glues a piece of cane to wood inside bellows to keep out damp, great care is needed in wood work, to make joints perfectly sound, and in leather work, to cut leather perfectly true and cement it strongly, so strain on bellows is great; is most factories, is usually known as an organ builder, g.

bellows maker (reed organs, harmoniums, etc.); cuts wood to required dimensions with hand tools, and glues and screws pieces together to form frame of bellows; fits leather, tooth (rubberised canvas) or other material to frame.

bellows mender; replaces worn or defective bellows or other parts of bellows with new material, which he screws, nails, or glues on to frame-work.

concertina maker; general term covering all workers engaged in making concertinas, e.g. action maker (342), bellows maker (348), body maker (460), finisher (480), pan maker (493), reed frame maker (278), reed maker, g.

drum maker; if shell is of wood, recovers wood, for shell, which has been steam-bent and rolled up, places it on shell and screws it with steel scraper; cuts wood to required length, planes ends where they are to overlap and secures laps with glue, and sometimes with nails; if shell is of brass, recovers shell, already prepared by coppermith (257) g.; pianos and small wooden hoops so that they exactly fit over shell, and fits them on, drills holes in hoops (to receive cords) with brace and bit, and chisels holes with a hot power, to harden them, or screws on metal fittings to receive cords; coats inside of drum with varnish, or then cuts it round hoop and leaves it to dry; when it has dried stiff, presses hoop and vellum over shell, and tightens vellum with cords or screws.

drum stick maker; for side drums, turns, or shaves, drum sticks complete from ebony, partridge, or labwood, for bass drums, recovers a half of felt (for drum stick head) ready made, or makes it himself, by gluing together several layers of thick hard felt into a rough ball, and turns it to shape of drum stick, based on a lathe; borer hole in centre, and cuts groove for insertion of stick; turns a lining of wood or metal, for hole, and fits stick into lining by gluing, wedging, or cementing according to material used; shapes stick, if necessary, on lathe. examiner (gramophones), gramophone examiner; gramophone fitter; examines gramophones and records at various stages of manufacture, to detect defects in material or workmanship.

felt maker (pianos), see hammer coverer.

finisher (harmoniums); fits bellows into case, fits pan, i.e. reed wind chest, with pallets, i.e. mechanism fitted under reed to control passage of wind, steams, and reads by screwing them in, and regulates them; fits pan on top of bellows; faces together remaining ends of case after mechanism has been fitted in case; has specialised knowledge of particular type of instrument on which he is working, and can make delicate adjustments therein.

finisher (pianos), piano finisher; (i) receives action parts in bundles and assembles them into complete actions, as for action assembler (642); (ii) receives actions ready assembled; screws assembled action into piano case over keys, chiselling, filing and otherwise trimming piano frame and/or action beam to fit; makes action fit exactly into frame, so that proper contact is made between action and keys; cuts hammer shanks, if necessary, to correct length, with a small hand saw, and glues hammers into action; adjusts setting of action parts roughly and approximately to frame, by unscrewing wooden screw heads, which hold action to frame, part of connecting and adjusting mechanism; prepares piano for final process of adjustment, e.g. regulator (642); is sometimes known as action finisher, but must be distinguished from action finisher (669) g.

finisher (key-ways); places individual keys on key frame, and regulates and adjusts each key with plane to ensure evenness and correct spacing.

finisher (wood wind instruments); (i) where work is sectionalised, receives instrument, after it has been moulded by moulder, g., and polished, and removes any padding material that may be left by pulling threads

through key bearings; files pads (made by other workers) with shells or sewing wax, and screws in springs; fits keys, matted by instrument, g.s., into instrument by inserting bearing pins into their pivots; cuts cork stops with hand knife, in order to fit and adjust them; (i) where work is not self-evident, receives wooden or ebony parts of instrument, which have been roughly bored, and turned by other workers, also receives keys; fits keys to wooden or ebony parts and brings instrument to condition ready for use.

fitter, fitter-up (harpist): receives hangers, hanger-pins, etc., complete, with body and neck fitted together, and polished; also receives keys, i.e. paper, for scroll, tail piece, peg and bridge, vellum, screws, and other attachments for tightening, vellum, and strings; completes instrument, precise operations varying according to particular type of instrument; usually soaks vellum in water to soften it, stretches it over body and tightens it; e.g. drum maker; drills holes for tail piece and inserts it, cuts wire to lengths, files it to shape, and presses it into grooves cut by hanger maker g.s. to indicate fingering; hovers key holes in scroll, fits keys therein, and screws them and screw-plates to scroll; strings harp.

fitter, matrix (gramophone); **gramophone matrix fitter**; takes matrix, i.e. a metal disc, on which depressions in original wax record, have been reproduced in relief, and stamps out hole in centre, by putting a circular guide-line, half over centre, and reposition part underneath, and clamping whole and screwing down in a hand press to pierce round hole in centre; takes matrix and fits it in a shallow circular bed or trough, called a mould, taking care that hole in matrix fits on to hard raised centre of mould; places a metal rim on outer edge of matrix and secures it to matrix and to mould with a number of screws set round edge.

fitter-up (brass wind instruments), **fix maker** (brass wind instruments).

frama maker (piano), **see** marker-off (piano).

frama worker, iron frama worker (piano); prepares cast iron frame of piano for bronzing or gilding, by filling up uneven surface of casting with iron "filler" (iron cement), and applying one or two coats of body paint to give it a smooth surface.

glockenspiel maker; saws steel bars to required length with a hand or machine saw; sets up lathe or drilling machine, and drills holes in bars, ready for insertion of screws in mounting; files ends or back of bar with a hand file, to reduce length or thickness, thereby altering pitch of note (tuning); strikes bar with a wooden hammer, and compares note given out with that of a standard glockenspiel; continues tuning until note is in perfect accord with standard; saws and files cross, and screws pieces together to form a wooden frame; mounts glockenspiel, by screwing down tuned bars of metal in correct arrangement for scales.

gramophone fitter, gramophone erector, mechanic (gramophone), **erector assembler** (gramophone); mechanician and sound-boxes of gramophones, ready for putting into cases.

gramophone maker; general term for any worker engaged in making or assembling component parts of gramophones.

gramophone soundbox examiner, gramophone soundbox tester; turns soundbox over in hands, and looks for bad turning or planing or other faults in workmanship, or for faults in assembling; if any such defects are observable, puts soundbox on an instrument, and plays a standard record; listens carefully to playing of

record, with special reference to detection of overtones (a common fault), etc.; if there are no overtones, etc., passes soundbox to gramophone soundbox fitter, as for gramophone fitter.

gramophone soundbox maker; general term covering nailers (300), turners (250), drillers (200), metal polishers (200), metal platers (250), and assemblers g.s., engaged in making or performing one or more operations upon gramophone soundboxes, or parts thereof.

gramophone tester, see examiner (gramophone).

hammer coverer (piano); **felt maker** (piano); covers piano hammers by gluing on prepared strips of felt, graduated in thickness according to position of hammers in piano action; either covers and trims each hammer head separately, or more usually puts a number of hammer heads together in a clamp, on bench; coats them with glue; covers them with a sheet of felt and cuts hammers apart again, unless this is done by cutter-up (649) g.s.; tapers felt, if necessary, by planing.

hammer finisher; performs any or all of operations involved in finishing hammers after they have been covered by hammer coverer g.s.; includes trimmer, shaver (649) g.s., engaged in sand (649), machine hand (495), hole borer (486), paper hand (499) g.s. **hammer maker** (piano); makes wooden portions of hammers by hand and wood-shaping machine; tapers off, with a sharp knife or chisel, ends (or cuts) felt covering; sometimes performs all operations of hammer coverer and hammer finisher g.s.

harp maker; general term covering any workers, other than polishers (478) and graders (489) g.s., engaged in making either wooden or metal parts of harps, if a wood-worker, is usually a specialised cabinet maker (473) g.s. who cuts and shapes wood, with saws, planes, chisels, gouges, and other cabinet maker's tools, to make wooden frame of harp; in repair work, cuts away defective parts and makes fresh parts, and glues or screws fresh parts into position; if a metal worker, may be a brass finisher (234) g.s. or any other machine tool worker; ordinarily, he drills and clamps together double plates, and screws in movable steel connecting rods; screws this entire apparatus, which controls pitch of strings, into position on harp.

inside band, general inside band (pipe organ); an organ builder g.s. engaged in workshop where organ builders specialise in different branches; makes and fits up action controls, soundboard and similar work appertaining to inside of pipe organ, or distinct from organ case making or specialised work, such as wooden pipe making; in most factories, is usually known as an organ builder g.s.

instrument maker; general term for any person engaged in making musical instruments; usually either a wood wind instrument maker g.s. or a brass musical instrument maker g.s. but occasionally combines both occupations.

key and action maker (barrel organ); tempers small steel points by beating, on gas apparatus; drills, by hand, specified holes in wooden levers; inserts and adjusts steel pins in levers, taking care to make them even; drills, by hand, holes at top of lever into which iron or steel legs are fitted; glues calf skin to hammer, and screws hammer on to other end of steel leg.

key maker, metal key maker (wood wind musical instruments); (i) takes wire of German silver, and forges it, cold, to as near shape and size of keys as possible; files it, and rubs it with emery, to bring it to shape of finished pattern; rubs on cup, made by other workers, on which finisher (wood wind instruments) g.s. after-

wards files pad; (ii) in lower-grade work, receives rough casting of key, which he hammers, finally, and hards it, then files, etc., and solders on cup, as described above.

maker, maker and fitter (brass wind instruments), **brass instrument maker, brass musical instrument maker**; **fitter-up** (brass wind instruments); receives brass tubes (cup, bent), bells, i.e. bell-shaped ends of tubes, and valves; bends lead in furnace to melt it, plugs ends of tubes, pours molten lead into tubes, and allows it to set; puts tubes, filled with lead, in holes in body, and bends them to approximate shape required; works tubes by hand or with cross-bars, into iron blocks, placed in position to shape them; smooths heads with small hammers; heats tubes and runs off lead, receives fine and coarse abrasions from tubes by rubbing them through holes; saws tubes to required lengths; fits tubes together, and joins them with solder and blow-pipe; places valves in position, and solders connecting rods; connects valve tubes to main instrument tubes; cuts brass sheet to required shape, and shapes it, by filing and by rubbing over sand, to make fange of stay; cuts brass wire rod to required lengths for stays, and solders on tubes and sets protection caps, used for strengthening exposed parts of instrument.

maker (wood wind instruments); **in scroll workshop**, combines work of setting-up, mounting and finishing, which would be sections of larger shops; takes wooden parts, which have been roughly shaped and bored by other workers, and bores holes in them for notes; then mounts and finishes instruments; e.g. mounter and finisher (wood wind instruments), **marker-off** (piano); **frame worker**; carries bridges, i.e. beams between which strings are stretched, by hand, with chisels, and fits bridge pins; fixes iron frame in position on soundboard; marks division of pins to form holes, and drills holes for wood pins in wood pin plank, either with an ordinary hand drill or with an electric hand pistol drill.

mechanic (gramophones), **see** gramophone fitter.

mounter (wood wind instruments); receives wooden or ebony sections or joints of body of instrument, which have been roughly, bored and turned by other workers; also receives keys (not completed), saddles, lengths of pivot tube and pillars, etc.; screws pillars into sections of body; sets up drills on lathe, and pierces therewith pillars for insertion of pivots; notches keys, either by drilling on lathe or by hand filing; fits pivot tube by cutting and filing down ends, or by reaming in lathe and fits and centres ends of pivot tube in instrument to match spaces between pillars; cuts away pieces from wooden or ebony sections of body of instrument, with small chisels, gouges, etc., to make room for other work.

mounter and finisher (wood wind instruments); combines work of mounter and of finisher (wood wind instruments) g.s.

music maker (barrel organ); shapes certain parts of roller in a machine, and, reading from musical score, interprets music for barrel organ by pressing levers which cause pins to be made in roller, ready for insertion of steel pins, work requires great accuracy and a competent knowledge of mechanics.

organ builder (pipe organ); general term for any worker capable of performing all duties in processes of organ building, including action fitter (pipe organ) (648), bellows maker, general inside hand, inside band, organ erector, organ fitter, organ maker, organ maker and fitter up actions of organs i.e. all mechanism connecting keys with pipes such as touch boxes,

connections from touch boxes to keys, coupling chests, intermediate, primary actions; receives specifications from foreman and orders wood from timber yard, prepares drawings, if necessary, and marks out on paper all large cutting, planing and boring work to be done in machine shop; contracts parts of organ actions from prepared timber, with saws, chisels, plane, hand drills, and other hand tools; sometimes also uses machine fret saw or small hand saw; cuts, to size, leather parts and fittings and glues them on; makes, in case way, small subsidiary parts and assembles on, stings or varnishes action parts; joints, rivets, couples up, and adjusts parts until all connections are working smoothly; frequently also (1) makes organ case (by sawing, planing, chiselling, screwing and jointing) and ornaments it with simple carving; (2) constructs wooden pipes, to specified dimensions, by cutting out and joining up sides, marking and cutting out orifices and inserting cross-pieces above languid, in small workshops, makes, with assistance, organ throughout, including organ case, and also assists in tuning and in voicing; in large workshops, often specialises in one or more processes of manufacture, organ architect (pipe organs); an organ builder *g.v.* who, with other workers to assist him, is sent from factory to erect organ in situ; in each case, in position, 'lays down sound boards and bellows; sets up pipes and connects action and key work by bolting, screwing and otherwise securing parts which have been previously fitted together in factory and do not require further adaptation; in most factories, is usually known as an organ builder *g.v.*

organ finisher, see tuner and regulator (pipe organs)

organ fitter (pipe organs); an organ builder *g.v.* who fits together, in factory, parts of pipe organs, which are usually made by other craftsmen; sometimes makes, wholly or partly, one or more parts himself, using fret-saw, hand-saw or lathe; fits parts by riveting, jointing, gluing on leather strips, varnishing, adapting by chiselling, etc., using a hammer, saw, chisel, file, square and other hand tools; in most factories, is usually known as an organ builder *g.v.*

percussion instrument maker; general term for any person engaged in any process of making percussion instruments, including drum maker, glockenspiel maker *g.v.*, piano (bowed organ); inserts, with plane and pressing machine worked by treadle, steel pins in positions marked by music marker *g.v.* on revolving cylinder or roller of barrel organ.

plaster maker (brass musical instruments), see valve maker.

player fitter (player pianos); fits pneumatic actions (top and bottom) into player pianos; cuts parts to receive rails, pushes rubber tubes into position, and links up with top and bottom action by screwing and clamping.

player mechanic (player pianos); general term for any person who makes and assembles parts of player pianos, including player assembler (649), player fitter, bottom action maker (642) and top action maker (642) *g.v.*

pneumatic hand (player pianos); makes, by hand, from rubberised cloth, wood, and leather, with glue, "pneumatics" (small bellows, one for each note) to be fitted in player pianos by top action maker (649) *g.v.*

preparer (bowed organ), *s.v.* roller, or revolving cylinder, of barrel organ and key frame action into organ case; examines and adjusts eccentric change-tune machine to ensure that various tunes marked on barrel are correctly divided, and that pins work correctly with key points.

presser, record; piano man (gramophone, etc., records); picks up piece of thermoplastic composition, cut to appropriate size by rollerman *g.v.*, and weighs it to ensure that it is of exact weight required; places it on a steam-heated table and rolls it until it becomes plastic and heated evenly and to correct temperature, under influence of heat of table, selects correct label from a supply before him, and places it over centre portion of mould, into which matrix, *s.v.*, a wooden disc, has been fitted by matrix fitter *g.v.*; secures label with a metal pin; scrapes up all heated composition with a metal scraper, and puts it on matrix; superimposes another matrix, into which he has also fitted a label; places these two matrices, in juxtaposition, in hydraulic press, which he acts in motion with a lever; when composition has been pressed out to shape of record, removes it from mould, tapping, mould sharply on table to loosen record.

reed board fitter (reed organs); a reed board *g.v.* specialising in fitting of reed boards in large shop where work is sectionalised, or a partially skilled workman, not fully qualified as a finisher, engaged in fitting reed boards, glass stems to pallets, cups, pallets, with stems attached, into grooves in reed board, and screws reed board into position in case of reed organ.

reed maker (concertinas); concertina tuner, cuts strip of steel, with hand tools, roughly to size of reed tongue, files tongue to exact shape and size required, and screws it in; tests reed in a tester, *s.v.*, an instrument resembling a concertina, comparing sound of each reed with that of a standard reed, combines filing tongue and testing reed metal it is true to pitch.

reed maker (harmoniums, etc.); screws in small tongue of sheet metal, which nearly fills aperture in metal holder, so that one end of tongue is free to vibrate, tunes reed by scraping its open end.

reed maker (musical instruments); makes reeds for wind instruments, *e.g.* melodians, flutes, piccolos, etc., either in metal, by drilling and screwing stamped metal tongue to stamped metal reed block, or soldering them together, or in cane by cutting with hand tools, and binding with treated cotton and cement.

reed maker (pipe organs); assembles parts of reeds, metal tongues, wooden wedge and shalloet, fixes tongue firmly in cylindrical metal shalloet by means of wedges, so that when open and of shalloet is blown, vibration of free end of tongue emits required tone.

regulator (organs), see tuner and regulator (pipe organs).

regulator (player pianos); checks and adjusts pneumatic work and mechanical action of player piano.

repairer (pianos and organs); effects small repairs to pianos or organs, *e.g.* applies new felt coverings to hammers of pianos; repolishes, restrings and sometimes tunes pianos; or carries out small repairs to reeds and bellows of harmonium or organ.

repasser and finisher (barrel organs); plays organ after revolving cylinder has been pinned, see pinner, to see that it is in order; corrects any false notes, by adjusting mechanism, or if position of pins is faulty, returns instrument to be re-pinned.

rollerman, roller mill hand (gramophone records); adjusts valves, *i.e.* screws, to regulate heat of hot and cold (not cold) rolls; watches temperatures constantly and keeps rolls at correct temperature throughout rolling operations; adjusts interval between rolls by means of screws; throws between rolls, with a sweep or shovel, material in powdered form, which is supplied to him by labourers, or throws in broken records, which are pulverised between rolls; material

is reduced to plastic consistency, and adheres to cool roll in form of a continuous sheet; sets a fixed knife in position, which scrapes sheet of plastic material, *i.e.* composition, off roll, throws composition, without breaking it, on to a long metal table, where it is cut up by labourers into approximately equal quantities, each enough for one record.

soundboard hand, soundboard maker (organs); an organ builder *g.v.* engaged in making soundboards for pipe organs; receives instructions respecting the number and type of pipes that are to be fitted over the soundboard, inspects organ action, and spaces out soundboard by measuring and marking accordingly; drills, files and shapes (usually with hand tools only) holes in soundboard which allow wind to pass to pipes; makes air and shape of holes to correspond with position and requirement of each particular pipe, and with organ action working in conjunction therewith; in most factories is usually known as an organ builder *g.v.*; cf. soundboard hand (pianos) (658).

stringer (pianos), also piano strings to length, with hand clippers; screws in wrest pins, and stretches piano strings thereto.

tambourine maker; takes a piece of steam-bent wood, and saws it to required length; bows holes, for insertion of jingles, with hand brace and bit; planes ends and glues them together to form shell of tambourine, seals cuff area, to soften it; when it has dried to proper condition, stretches it over shell and nails it thereto with small brass nails; places jingles in position in holes bored for them.

tester (brass wind instruments); tuner (brass wind instruments); tests instrument by playing scales and chords, and judging whether notes are true or not; if instrument fails to pass test, returns it to be dismantled, with a view to defect being remedied.

tester (wood wind instruments); tuner (wood wind instruments); tests instrument by playing scales and chords, and judging whether notes are true or not; if any note is false, scrapes a sharp hole, making that particular area, holes having been made slightly smaller than eventually necessary to allow for expansion.

tuner (pipe organs), see voicer (pipe organs).

trimmer (piano hammers); trims, with a chisel, rough edges of piano hammers after they have been covered with felt.

tuner (brass and wood wind instruments); (1) see tester (brass wind instruments), (2) see tester (wood wind instruments).

tuner, concertina, see reed maker (concertinas).

tuner (pipe organs); tunes, *i.e.* varies pitch of, organ pipes, (1) metal pipes, bands metal tuning slot at top of pipe so that gap made by slot is increased in length from top of pipe to raise pitch or decreased to lower pitch of pipe; makes small changes in pitch by slight opening or closing top of pipe by means of conical wedge and hammer; (2) wooden pipes, drives in stop in top of pipe to raise pitch or pulls it out slightly to lower pitch of note.

tuner (reed organ), see voicer and tuner (reed organ).

tuner and regulator (pipe organs); organ finisher, regulator; a tuner *g.v.* who also regulates strength of tone of organ pipe by blowing, tuning, by altering size of crumple, in preparation required for great exactness; in case of metal pipes, either cuts or scrapes away metal from rim of hole at foot of pipe (to give more wind), or taps and works metal (to give less wind); in case of wooden pipes, either enlarges hole by chiselling, or narrows

it by adding a strip of wood of appropriate size, and screwing it or gluing it on.

typinal maker, or for drum maker
valve maker (brass musical instruments); piston maker: (i) sets up drilling machine, and bores holes in brass tubes for pump; (ii) moving pistons, of valve, taking care to get holes in exactly right position; if necessary, finishes holes by filing; drills, file in, and secures in position, with blowpipe and silver solder, cross tubes into holes previously bored in body of valve pump; bends connecting tubes, through which wind passes from valve to main tubes of instrument; bores holes in piston, i.e. outside case of valve, to correspond with connecting tubes, and solders connecting tubes to piston; also solders several pistons together, with blow-pipe and silver solder; packs soldered parts in vitriol to remove flux; tramps surplus ends from cross tubes filed in pump, and also ends of connecting tubes protruding inside pump; turns and grinds pump into shape on a lathe, to make them work smoothly together; smooths parts of valve by applying them to a revolving stick and mop, coated with pumice and oil, and fitted into a lathe, sets up lathe, in all cases where lathe is used; (iii) a less skilled worker, who grinds all valve parts but not fitting them together.

voicer, flue voicer (pipe organs); Jener (pipe organs); voicer, i.e. varies tone of organ pipes (varying in length from a few inches to thirty feet), by inserting and pressing into position, and adjusting at correct angle, a projecting tongue in top of orifice, known as a languet, using a hand tool called a languet file; serrates and cuts notches in edge of lip in small aperture of windway, thereby making comb, to split up and regulate wind; files and bends lip, as may be necessary, to control size and angle of opening; files off superfluous material from projecting ears at orifice, to bring them to correct length; from time to time trues all pipes on a voicing machine, i.e. a kind of small organ used for testing purposes; cf. reed voicer.

voicer and tuner, reed voicer (reed organs, etc.); tuner (reed organs); cuts tongue of reed out of a thin slice of brass with a sharp guillotine; files it to required thickness; puts it upon an arc-shaped stand, and rubs it to required curved shape with a hand tool; cements a piece of piano foil on tip of reed tongue and a circular piece of lead foil on top of file; fits tongue into place on body, or chassis, of reed against V-shaped wind opening; inserts whole in a metal tube, which he fits into foot of metal pipe; voices reed, i.e. varies its tone, sliding a metal rod along tongue of reed, allowing more or less space, as may be required, for tongue to vibrate; uses voicing machine, a kind of small organ used for testing purposes; if reed is then found to be faulty, files, cuts, re-makes, and re-voices various parts until defect is removed; cf. flue voicer.

wood wind instrument maker; general term for any person engaged in any process of making flutes, clarinets, or other wind instruments of wood, including reeders, flute makers (486), tuner (487), keymaker, and moulder and finisher, etc.; sometimes specifically designated according to instrument made, e.g., bassoon maker, clarinet maker, cor anglais maker, saphote maker, flute maker, sboe maker, piccolo maker; uses rosewood to approximate length for making xylophone notes, chisels and planes it to shape, flattening base and rounding side of wood to be struck by hammer, in form of an arc; cuts off ends of notes to shorten them, or chips, planes, etc., notes to reduce thickness,

thickly tuning them; length and thickness required depend on varying properties of wood treated; bores holes for cords or gut binding; saws and planes wood for frame and screws pistons together to make a complete frame; bunches straw, and lays it in frame or inserts rubber supports; binds wooden frames, in proper order, to straw and frame, or threads cords through rubber supports and binds to frame.

648.—OTHER WORKERS.

action filar (pianos); files, by hand, metal standards, i.e. part of piano actions, to clean them in preparation for nickelling.

action screw-down (pianos); screws down parts of piano actions which are to be screwed to action rail, ready for action assembler (642) q.v.

brusher, action brusher; a coverer q.v. who inserts a small piece of felt, i.e. bushing cloth, in hole in action part already bored by borer (688) q.v., and also substitutes of part quilt and frictionless, secures it with glue and cuts off superfluous material.

centrar (piano actions); puts pins into bepper, and places wooden parts in another part of machine which automatically drives pins into wooden parts and places them in correct position for centring.

coverer (piano actions); glues felt or cloth on to levers on other wooden parts of piano actions, to reduce friction, with a small hand tool; cf. busher.

cutt-up (piano hammers); a learner or apprentice who separates hammer heads after they have been covered with felt by hammer coverer q.v., for which purpose they are ranged in a close, in close juxtaposition, and apart, by hand, felt covering hammer heads, or pushes felt-covered hammer heads up to small power-driven band knife.

edge grinder, edger, see polisher (gramophone records).

finishing boy (pianos); fits pedal work in upright pianos; puts glue sticks and rockers into place using chisels, screws, etc.; drills holes in piano keys, either with a hand drill or with an automatic machine drill (set up by skilled worker); inserts lead in holes so drilled, to make keys balance.

grinder (gramophone, etc., records); puts raw materials, from which gramophone records are made, into a machine, which automatically grinds and mixes them, in readiness for rollerman (648) q.v.

ironer-up (piano hammers); irons felt after it has been glued on to hammers, by moving hammers over gas-heated iron or steel surface, by hand.

jackal cleaner (phonograph records); see mould wiper.

mould wiper (phonograph records); jacked cleaner; wiper out, after each impression, cylindrical moulds used by pressman (667) q.v. in forming phonograph records.

pedaller, pedalling maker (pianos); screws iron or brass feet to bottom board, i.e. the stile, and to rockers; makes rocker sticks by sawing, to length, and rounding, with files, sandpaper, etc.; puts in springs and pedals with screws.

polisher (gramophone records); edge grinder, edger; places a record (which leaves mould and matrix with rough edges) between clamps, and keeps clamps tightly closed upon it by pressing a foot lever; switches on power, causing record to revolve at slow speed; brings edge of revolving record into contact with an abrasive, which smooths and polishes it, is usually also a tester (gramophone records) q.v.

record boy, record girl (gramophone, etc., records); carries records from plate to place in works.

shaker (piano hammers); files shaft, or stem, of hammer, with glue, into prepared hole in hammer.

stitching hand (piano hammers); feeds machine with felt-covered hammer head, and fits coil of wire on holder in machine, which automatically draws wire forward, cuts it, and rivets it through felt into hammer head to secure felt on head.

tester (gramophone records); (i) examines records to see if they are scratched, cracked, or clipped, and if labels are intact and correctly placed; rejects any records that are faulty, and affixes new labels, if necessary; polishes records, by hand, with flannelette; is usually also a polisher (gramophone records) q.v.; (ii) plays records, and notes faults in tone or in registering.

Sub-Order 2. — Makers of Vehicles (see also under Metal Workers and Wood Workers).

662.—REPAIRERS OF RAILWAY WAGONS AND MINE TRAMS AND TRUCKS.

colliery corve mender or repairer, colliery tram mender or repairer, colliery tub mender or repairer, corve, corve repairer, hutch mender, hutch repairer, pit box mender, tub repairer, tub mender, tub repairer; keeps hatches, trams, tubs or corves, used for moving coal at colliery, in repair; cuts bolts and rivets, with chisel or oxy-acetylene flame, and removes broken or bent wood and iron parts; makes, adapts and refits new parts, bolting and riveting as required, using hand tools.

wagon repairer, railway wagon repairer; (i) keeps railway wagons in repair by replacing broken parts of woodwork and bolting in new wood; (ii) refits bent or broken steel or iron parts; cf. fitter (210), joiner (476).

668.—OTHER SKILLED WORKERS.

aeroplane builder, aeroplane constructor (operative), aeroplane stretcher, aircraft mechanic, aviation mechanic; assembles parts of aeroplane or alrship, made in various specialist shops, and fits them together, making necessary adjustments, with hand and machine tools, e.g. plane, file, drill, lathe, hammer, screwdriver, etc.

cutter (perambulators, etc.); cuts cloth, leather cloth, or leather to shape, with knife, shears, or machine, for hoods, aprons, cushions, etc., of perambulators, and makes fitting usual flange card or sheet metal patterns; cf. cutter (403).

fitter-up, perambulator fitter-up; perambulator assembler, perambulator fitter; builds up chassis and frame of perambulator by bolting and riveting together previously prepared parts (sometimes done by specialist maker-up, perambulator assembler); fits wheels to hubs, screwing on bushes and fitting ball bearings in some cases; slings body to frame with leather straps or springs; fits hood and handles with bolts and screws; screws down door by special fitting on body for safety belt, apron, etc. frame assembler, hood frame assembler, perambulator hood frame assembler; assembles parts of frame for hoods of perambulators, etc., to make complete frame; threads frame through seats in hood, cf. hood coverer; rivets hinges by cold hand or machine riveting.

hood coverer (perambulator); (i) stitches hood cover to hood frame by hand; (ii) often also makes hoods, with sewing machine, for folding perambulators, in which hood is shipped on to hood frame rods.

hood maker, baby car, see perambulator hood and apron maker.
hood maker, basketette, see for perambulator hood and apron maker.
hood maker, Cape cart, a hood maker (carriage) g.e. who specialises in making large hoods known as Cape cart hoods.

hood maker (carriages, etc.); (i) a coach smith (190) g.e. who makes and fits together wooden and metal frames and fittings that support hood or canopy; (ii) a coach trimmer (594) g.e. who cuts and finishes material (canvas, cloth, or leather) of which hood or canopy is made.

hood maker, mail cart, see perambulator hood and apron maker.

hood maker, motor car, as for hood maker (carriages).

hydraulic pressman (solid tyre), see tyre pressman.

paneller (carriage, motor bodies, etc.); cuts and fits panels into side of coach or motor body, using saw, chisel, file, screwdriver, etc.

perambulator assembler, perambulator fitter, see fitter-up.

perambulator hood and apron maker, perambulator hood maker; baby car hood maker, motor car hood maker; cuts out leather cloth, and lining material, puts together and sews up seams by power machine to make hood covers and aprons for perambulators, motorcars, etc.; sews covers on to frames by hand, work sometimes sectionalised; of cutters, hood coverer, machinist (419).

perambulator maker; general term for any workers engaged in making perambulators, etc., e.g. body maker (475) or, junior (476), fitter (419), perambulator assembler, g.e., perambulator mounter, a fitter-up or assembler g.e. who screws fittings to underside of body and slings body to chassis, as received from body maker and perambulator smith respectively, with leather strips or metal springs; when handle is not part of chassis, screws handles to body and fits wooden, china or xylonite cross-pieces with bolts and nuts.

running repairer (railway cars); carries out minor mechanical repairs to tramway cars, such as can be done without prolonged withdrawal from service; executes such repairs generally by replacement of worn or damaged parts; is usually a skilled fitter (210) g.e.

steelplate body builder, as for aeroplane builder.

tyre pressman; hydraulic pressman (solid rubber tyres); fixes solid tyres on to wheel rim of lorries, motor buses, etc., by placing tyre (on the steel foundation) in a hydraulic press where the steel foundation is forced on to the wheel rim; may secure by means of belt-wagon builder, wagon erector, wagonwright, railway wagon builder, builds, with strong hand wood and necessary ironwork, body of railway wagon which is mounted on steel undercarriage, cuts and shapes wood to size with various hand and machine tools; fits and assembles joint and screws with metal bars etc. bolting together where necessary; sometimes also makes wooden underframe where wagon is entirely of wood; cf. wood wagon builder (476).

wagon examiner, wagon inspector (railway wagons); examines and checks finished work on railway wagons; inspects old stock and indicates by marks thereon what repairs they require; renders written report in subordinated form.

wing coverer (aeroplane); stretches strips of prepared linen over the wing frame and secures by connecting with dope, a waterproof adhesive, and by hand stitching with needle and thread.

659.—OTHER WORKERS.

bogie cleaner (railway rolling stock), under-frame cleaner, removes accumulated grease and dirt, with a hand brush, from bogies and underframe of railway rolling stock, preparatory to repair.

booth attendant, booth hand (rolling stock); wheels trolleys carrying dismantled parts of axle boxes, etc., to tanks of water and steam, used for resurfacing cut and groove; closes door of chamber, sweeps spooly into tank by means of electric hoist and opens and closes valves for admission of water and steam to tank; or assists watch driver (353) to take articles to be cleaned, may also swirl articles on removal with water from hose.

breaker - up (railway wagons), demolishes railway wagons by unscrewing, removing bolts, etc., or breaking up by force, when necessary, with hammer and chisel, sorts out parts that are suitable for re-use.

carriage works labourer, coach builder's labourer, coach labourer; does general unskilled work in carriage or coach building works; fetches and carries material, holds up work, hands tools, etc.

dress guard layer (cycles); lines cord through holes in rear mudguard and bulb fitting to form dress guard on rear wheels of Indian bicycles; sometimes does fancy knotting in more elaborate designs.

rubber tyre worker (perambulators); general term for workers fitting rubber tyres, solid or pneumatic, to wheels of perambulators, bath chairs and similar vehicles, including solid tyre fitter, pneumatic tyre fitter g.e.

tyre fitter, rubber tyre fitter; general term for workers fitting solid or pneumatic tyres to motor lorries, cycles, aeroplanes, and other similar vehicles; for pneumatic tyre, its outer cover over wheel rim, inserts inner tube, adjusts valve, connects fitting of outer cover to an inflating pump or power-driven pump and pressure gauge; for solid tyre, fits solid or canvas rubber tyre to rim with special rubber cement; twists together ends of wire, in winding tyre; cf. tyre pressman (558); sometimes specifically designated, e.g. cushion tyre fitter, cycle tyre fitter, motor tyre fitter, solid tyre fitter, pneumatic tyre fitter.

underframe cleaner (railway rolling stock), see bogie cleaner.

wagon works labourer (rolling stock), as for carriage works labourer.

Sub-Order 3. — Builders of Ships and Boats (see also Under Metal Workers and Wood Workers).

662.—SHIPWRIGHTS (MATERIAL NOT STATED).

fairer, see shipwright.

ship repairer; a shipwright g.e. wholly or principally engaged in ship repairing.

shipwright; fairer; one of a gang of skilled men who lay down keel blocks; fair, i.e. lines off and keeps in proper form, each part of steel framework of ship to line of design, using wooden ribbons, and directs frame and beam erections (222) g.e. engaged in this work; superintends laying of launchways and launching; lays decks, and generally fits out ship; sometimes also superintends erection and maintenance of staging used by workmen.

shorer (shipyard); a shipwright g.e. who, in big shipyards, specialises in the shoring up of ships on shipways in dock; directs work of shipyard labourers (663); rarely used; cf. shorer (shipbuilding) (499).

668.—OTHER SKILLED WORKERS.

lines-off; assistant loftsmen; a shipwright (662) g.e. who indicates work to be done by marks on structural work already erected on ship; loftsmen, assistant, see lines-off; loftsmen, loftsmen and scriver, see scriver.

marker-off; shorer; marks off, from working templates on frame of ship, positions of ship plates and rivet holes for guidance of ship platers (222) g.e.; cf. lines-off.

rigger, ship rigger, ship's rigger; shipping block maker; tackle maker; erects ship masts and derricks; takes over duties of ship's crew when ship reaches port and seamen are paid off; moves ship about in dock, from one dock to another, or into dry dock for painting, repairs, etc.; splices hemp and wire, tranning and standing rigging, boat falls, mooring and gangway ropes, etc.

scrivener, scriver-in; loftsmen, loftsmen and scriver; lays off from plates on wooden floor, specially laid down for the job in hand, outlines of ship frames and plates, scrives in outlines with sharp scriving tool; also, in certain cases, prepares iron outlines on floor, makes templates for use of platers, usually done by pattern maker (489); marks off Plimsoll line, draught markings on bows and stern; also paints in area limits where necessary, cf. rigger, the shearer, etc. (see shorer).

stager, stage rigger; erects staging on which workmen stand to work, except uprights or gunwale stagings which are erected by shipwright (662) g.e. or in steadings by carpenter (474) g.e. hangs some stagings from beams by chains, or builds others outside ship on uprights fixed in ground and tied together by cross beams and chains, tackle maker, shipping tackle maker, see rigger.

wayman; a shipwright (662) g.e. or a plate-layer (577) g.e. who prepares and lays launching ways for ship about to be launched; prepares wooden blocks, and also, if by hand cradles on which are fixed wedges; places cradles under keel of ship, so that ship can be raised for launching by driving in wedges with sledge hammer.

twire applier; a ship rigger g.e. who cuts off wire with hammer and chisel, and fits, and splices wire rope in ship or boat construction, using piece.

669.—OTHER WORKERS.

dry dock labourer; does general labouring work (not ship repairing) at dry docks; cf. ship rigger's labourer, fitter (shipbuilding); prepares, by cutting, and places in position strips of tarred or other waterproof oakum splices (shipbuilding); rolls strands of oakum to requisite diameter for insertion by caulker (482) in crevices in wood.

rigger's labourer, asfiter, asfitterman, asfiter's labourer, asfiter gang labourer; shipyard labourer; does any general labouring work about shipyard, fetching and carrying tools, material, assisting skilled workmen, etc.; assists generally in lifting and placing in position heavy gear, sometimes assists rigger (662) g.e. in moving and mooring ships at yard jolly.

ship breaker, ship dismantler; demolishes old ships, narrowing bolts of plates and timber, and unfastening plated joints with saws; sorts and stacks metal, timber, etc., ready for cartage.

shipyard labourer, see rigger's labourer.

shore gang labourer, shore gang man; does general labouring work about yard apart from dry docks or penstocks in ship repairing yards, e.g. assisting ship's rigger (663) g.e.

shorer (shipbuilding): a labourer who fits shores (wooden props) under and to sides of ship, either in dry dock or on slip way under direction of shipwright (662).

slip labourer, slipway labourer: a labourer who works on slips up which ships are hauled for examination, repainting, repairs, etc.; hauls on and fastens ropes, masts and adjusts shoring blocks and props, etc.

Sub-Order 4.—Other Workers.

681.—FOREMEN AND OVERLOOKERS.

foreman (cheeseboard making, leather and strawboard making), cuts up strawboards and paper for cheeseboards on hand gauging; sometimes also operates, by means of a lever, a blocking press, similar to that used by gold beater (537) *q.v.*, for decorating cheese or background boards with gold leaf; superintends female cheeseboard makers (685) *q.v.* and is responsible for work of leather and strawboard workshop generally.

working foreman (tobacco pipes, not clay), sets up and repairs machines used by pipe makers (255) *q.v.* in any process of tobacco pipe making, other than of clay; also supervises and directs workers.

682.—SURGICAL OR DENTAL INSTRUMENT MAKERS.

blunt worker; makes forceps, stethoscopes, pliers, and other dental or surgical instruments which have not a cutting edge, bards and tempers any piece of steel and shapes it; sometimes also forges it, but may receive it ready cut to proper length, machines instrument by turning, cutting, drilling, screwing, tapping, grinding, and fits and finishes it with files and other hand tools, if necessary; passes to polisher (258) *q.v.* for polishing, assembles parts and screws them together to form complete instruments.

dental instrument maker, hospital instrument maker, surgical instrument maker; general terms for any worker engaged in making dental or surgical instruments, *e.g.* blunt worker, surgical cutter (255) *q.v.*

683.—SURGICAL APPLIANCE AND ARTIFICIAL LIMB MAKERS.

acoustic instrument maker; deaf instrument maker, ear trumpet maker, hearing trumpet maker; general term for any worker engaged in making ear trumpets or other instruments used by deaf persons; cuts sheet metal to shape, with shears or knife, sometimes also uses lathe and drilling machines, and various tools, in shaping metal parts; heats sheet metal round a mould with a hammer, and sometimes also heats it to form trumpet; cuts and shapes, if necessary, on lathe and drilling machines, vulcanite or other parts, but these are usually supplied ready-made and finished, fits together metal and vulcanite or other parts, with hand tools, work various gaskets according to type of instrument, but in many cases makes them of telephone rubber (300) *q.v.*

anatomical machinist; sews together with sewing machine, parts of anatomical appliances, *e.g.* trusses, surgical belts, coverings for irons.

artificial limb maker; hollows out, with hand-cutting tools, wooden parts of artificial limbs; makes joints and fixes them with small pins; covers parts of limbs by gluing on leather sheets; fits in special "Bowden" wires to movable joints to enable wearer to operate them; assembles and fits together all parts of limb.

deaf instrument maker, *see* acoustic instrument maker.

deformity worker, *see* orthopaedic instrument maker.

ear trumpet maker, hearing trumpet maker, *see* acoustic instrument maker.

orthopaedic instrument fitter; instructs orthopaedic instrument maker *q.v.* as to measurements of instruments, and is responsible for correct fitting of instruments; often consults with surgeon and receives instructions as to measuring and fitting; often also examines and measures deformed person for instruments where it is not essential that this should be done by surgeon.

orthopaedic instrument maker, orthopaedic mechanician, orthopaedic steel worker; deformity worker, sepioid mechanic; receives measurements and instructions from orthopaedic instrument fitter *q.v.*; forges steel bar or strip, if necessary, by hammering it on bench fitted with a vice, to make rods of appliance or to make racks, if these are required; hammers rod or strip to shape; fits it up on a lathe, *e.g.* turning, drilling, screwing, cutting, shaping, or by scraping or filing; attaches small parts and assembles parts to form complete instrument; hardens and tempers instrument, passes to polisher (258) *q.v.*; sometimes pads instruments, by wrapping them with felt and stitching on a leather cover, by machine; sometimes makes splints, by backing on limb, or by dissolving celluloid in acetone and applying this in coats alternately with several layers of gauze, the whole setting firmly to form splint; is able to shape instruments to fit and support deformities of hip, spine, limb, etc.

respirator maker; makes frames of respirators from wire and stampel metal, and sews inlets thereon.

split maker; (i) planes and cuts wood for wooden parts of splints, on woodworking machines; sandpapers parts, by hand, and screws them together, sometimes first dovetailing them, by hand; (ii) makes splints, for stock of metal, but does not make to specification; stamps out metal parts in a power press, forges joints and hardens and tempers them; sometimes turns parts of splints.

surgical appliance maker; general term for any worker engaged in making surgical appliances; includes wood workers, leather workers, and steel workers.

surgical belt maker; an anatomical machinist *q.v.* who sews anatomical or surgical belts by machine or by hand.

surgical mechanic; (i) *see* orthopaedic instrument maker; (ii) general term covering workers in surgical appliance trade, including orthopaedic instrument maker, splint maker, blunt worker (682), and sometimes also surgical instrument maker (682) *q.v.*

truss coverer; a surgical belt maker *q.v.* engaged in sewing, by machine or by hand, leather or fabric covers of hernia trusses.

truss maker; makes surgical trusses, belts; cuts steel strip, drills and reeds; covers with padding of wool or hair and leather or cotton fabric; *cf.* truss coverer.

684.—DENTAL MECHANICS.

adapter (artificial teeth); a dental mechanic *q.v.* making alterations in new plates returned to adjustment; may also utilise old materials in building new dental work; obsolescent.

dental mechanic, dentist's mechanic, mechanical dentist; sets artificial teeth in rubber to correspond with a cast moulded in plaster from wax impression of patient's mouth; encases the set in plaster in a metal case, and vulcanises it by steam pressure; polishes vulcanised set on wheel with emery paste; makes sets of gold or dental alloy by brazing, with blow-pipe, the porcelain teeth on to the metal plate after setting up in plaster cast, which keeps them in position during brazing process.

685.—OTHER SKILLED WORKERS.

album-maker (photographic plates, slides and paper); covers plates, films or paper, before coating proper, with a mixture containing albumen, as a basis for coating emulsion; processes *or for* color (photographic plates).

arrow featherer; cuts three shins in neck end of arrow, *i.e.* end which fits on bowstring, and sticks portion of feather in each, with glue, trims each feather when done to ensure that arrow will fly true.

artificial flower maker; (i) (*fabric flower making*); receives petals, stamens and seeds ready mounted on stem, also fabric, in strip and in sheet form, wire and other materials, and pattern of flower to be made; makes up flowers from materials by either of following methods: (a) threads petals over wire stem in correct sequence as regards size and standing; threads on stamens and passes centre of stamens and petals, binds strip fabric round covered wire stem under stamens and petals, down end of binding; (b) arranges, binds and passes petals without threading them round stem; sometimes also makes stems by twisting strip material round wire in form of spiral and passing down end of material, sometimes cuts to shape and pastes in position pieces of coloured cotton wool, as additions to centres and petals; (ii) makes fabric flowers of inferior quality by sticking petals on to wire stalk with paste and gophering iron; often also makes paper flowers; (iii) (*paper flower making*) uses; assembles paper petals to correct form and binds them with thin wire on to a stiffer wire forming stalk; also binds, with wire, leaves made by leaf stucker *q.v.*

artificial fly maker, artificial fly dresser; fly dresser; sorts out feathers, wools, and tinsels of bright colour and ties them together in the form of fly, or round a fish hook, thereby concealing it.

artist (fans); *see* fan painter.

bagatelle board maker, *as for* billiard table maker.

bait maker, artificial bait maker; (this metal bait) cuts out, with shears, rough shape of bait from sheet metal and files to shape; pierces it with anawl and binds hooks thereon to with gut; (lead or shanked metal bait) receives bait, cast and stamped by caster or slinger *q.v.* and files to finish it, binding it to hook with gut, (rubber bait) cuts rubber to shape, by hand, and inserts and threads hooks; (pointed leather, etc., bait) cuts, by hand, leather or similar material in shape of a fish, binds it to hook with gut or waxed silk and adds other decorations, *e.g.* bunches of coloured wool, by cutting up and bunching and binding it to shank of hook with gut or silk; in all cases, may also paint bait.

battledore maker; bends wood to shape of a bat by steaming it and by pressing with wedges, or procures wood ready bent; makes and affixes handle, stretches vellum, skin, etc., on either side of bat, and secures it firmly at side

billiard table maker; general term for any person engaged in one or more of various processes of billiard table making, e.g. billiard table fitter, billiard table fitter-up, fitter-up (billiard tables) *q.v.*

blind fitter, blind fixer, window blind fixer; takes measurements for size of blind required; sets out and trims material prior to machining by blind maker *q.v.*; fixes exterior blinds, when made, by securing special boxing, to receive them, at top of shop front, with iron stays or bolts driven into brick or stone work; fixes interior blinds by screwing special fittings on inside of window frames, and attaching cords to blinds.

blind maker; makes interior and exterior blinds throughout to required design, shape, and dimensions; (i) prepares boxing for exterior blinds, by nailing or screwing together wood prepared for purpose; work sometimes done by carpenter (474), cabinet maker (473), joiner (473), or upholsterer (504) *q.v.*; (ii) a machinist (419) *q.v.* who makes up material, by sewing machine, into blinds.

blind maker, shop; a blind maker *q.v.* who attaches at one corner blind, which has been made to required size, to roller at one end and to wood beam at other end; screws iron supports on to beam.

block lapper, block wrapper; wraps, or covers with felt, blocks used for polishing plate glass.

boiler and steam-pipe fitter, see *corroter*.

borer, brass borer, machine borer, brass boring band, brass boring machines; brass drill, brass drilling band, brass drilling machine, drill (broove and borer), and hand machinist (broove and borer); borer bores in stocks or blocks of any kind of brass, whether made of wood, bone, xylocote or ironwood, with a lathe or a boring machine; sets up machine, together with template; places stock in position under template for boring and switches power on or off as required; *cf.* *borer* (496).

borer, wide (tobacco pipes, not clay); bores slit at end of mouthpiece, by holding it against a drilling tool on a horizontal drilling machine.

box maker (wooden fixture boxes); makes fixture boxes with wooden bottoms and lids, and cardboard sides; receives wooden parts for bottoms and lids, already cut to size, cuts sides and round bottom pieces, and secures them at edges and corners, by gluing strong linen strip thereon, makes lid in same way; covers with cloth, which he glues on; rubs cloth down firmly to obtain even surface; *cf.* *frame maker (wooden fixture boxes)*.

brailer (flexible tubing), or for braider (cables) (319), covering rubber tubing with cotton.

buff and glazer maker, glazer maker; makes throughout white, buff and glaziers (307) and polishers (232) in tool and cutlery trade, by cutting wood, arranging it cross-grained in layers, or by building it up in sections arranged radially, rimming it with leather, and facing it with glue and emery.

buff coverer, see *map maker, leather burner-off, mantle burner-off, incandescent mantle burner-off, mantle burning-girl (gas)*; (i) (upright mantle), *see* *newcomer*; (ii) (inverted mantle) receives impregnated mantles in sets on metal grids so that bodies of mantle

hang through grids; places a number of grids on bed of mantle by burning machine so that each mantle is beneath a gas jet; pulls lever which depresses the burners so that flames are inserted downwards into mantles, to burn away thread; when cool, removes mantles for seasoning.

carbon tissue maker (photographic); weighs out gelatine, and soaks it until correct consistency is obtained; weighs out pigment according to known formula, and mixes them with gelatine, matching mixture to required colour; coats carbon tissue with this mixture, as for *coater (photographic paper)*.

carpet bag maker; cuts out pieces of cloth; stitches them together by palm and needle method; *cf.* *palm and needle hand* (417); sews on leather or metal fittings to make complete carpet bag.

catgut maker, see *gut drawer*.

catgut spinner, see *gut spinner*.

centraman (printer's roller); printer's roller coverer; has charge of set of mould galleys in which printer's roller spindles are covered with composition, *see* *composition maker* (356); screws circular cap on each end of spindle, and pushes spindle into cylinder of mould gun, assisted by roller (printer's roller) (360); pumps composition into mould gun and when full, admits cold water to water jacket round gun; when composition is set, unscrews cap and slides covered roller spindle from mould gun.

checker (penholders); examiner (penholders); scrutinizes finished penholders for defects.

cheese board maker; draught board maker; (i) (scale operators) cuts out and trims pieces of leather on a small power-driven saw; glues pieces together and places them under weights, where they are allowed to remain for a long period; mounts pieces of leather on a wooden base; squares sides of cheese-board by planing; cuts out pieces of wood for border frame, and glues or screws them on; sometimes also draws part or uses or presses, also other decorative work; usually also makes cribbage boards, by processes generally similar to those used in making chess boards, and boxes for holding chessmen, draughts, dominoes, etc.; *cf.* *wood box maker* (477); (ii) (jewel case operators) pastes a paper "face" on a strawboard base, by hand, with a brush and paste, or cuts cloth for padding and leather for covering and pastes leather over padding on a strawboard base; outlines squares, and disengages joints between leather pieces with thin strips of gilding, which she lays on board with a hand roller, containing a supply of liquid gilt which flows out as roller is pushed over leather.

cigarette holder maker; makes cigarette holders or mouthpieces from vulcanite, horn, bone, metal, etc., by turning on lathe.

coater, boiler, see *corroter*.

coater, celluloid coater (photographic films); or for *coater (photographic films)*; except that film-coating machine is narrower than paper-coating machine.

coater, emulsion; general term for *coater (photographic paper)*, *coater (photographic films)*, and *coater (photographic plates)* *q.v.*

coater, paper coater (photographic paper); adjusts speed of rollers, governing flow of emulsion, by turning a regulating screw; adjusts tension of rollers which distribute emulsion in coating machine, to ensure that emulsion is spread to required thickness; moves lever to start machine; guides end of paper through various rollers; watches paper as it runs

through machine, and regulates rollers, taps, brakes, etc., if coating does not go on satisfactorily.

coater, plate coater, dry plate coater (photographic plates); turns tap to regulate flow of emulsion, turns governing screw to regulate speed of rollers if machine raises or reduces beat of emulsion by turning on or off of supply of heat; sometimes places plates, edge to edge, on travelling band which carries them through machine, unless this is done by feeder.

colourer (artificial flowers), *see* *shade-coverer, boiler coverer, boiler and steam-pipe coverer, pipe and boiler coverer, steam-pipe coverer, boiler and steam-pipe fitter, boiler coater, boiler hanger, logger, pipe logger*; mixes wet paste of non-conducting material (asbestos, silicate of cotton, etc.) and spreads with a trowel over outer surface of boilers, steam-pipes, etc., to prevent radiation of heat when dry; may wrap lengths of heat-resisting fabric round pipes; secures covering either by wrapping wire netting round it or by including wire netting with the composition as reinforcement; screws brass or copper bands into position round pipes to support them; paints pipes or boiler after covering.

coverer, box coverer (wooden fixture boxes); receives box and lid from frame maker *q.v.*; turns end corner of strawboard lid, already cut and scored, glues strips of linen round corners to secure them; cuts paper for inside lining and cloth for outside covering and pastes paper inside and glues cloth on outside; and usually also screws on handles, hinges, and plates; *cf.* *coverer (cardboard fixture boxes)*.

coverer, bust; receives bust from bust fitter (369) *q.v.* and (i) sews together, on a sewing-machine, parts of covers cut out by foreman (30) *q.v.* from cover, which it has been sewn together by machine, over bust; pads bust with cotton wool or other padding; draws cover tightly over padded bust, leaving no wrinkles, and sews up cover by hand.

coverer, case (brass, jewel, pipe, etc., cases); covers, by pasting or gluing, exterior of brass, jewel, pipe, or other similar cases with pieces of leather or leather substitute, previously cut to shape by foreman or enter; sometimes specifically designated by kind of case, e.g. *brass case coverer, case case coverer, camera case coverer, jewel case coverer, pipe case coverer*.

coverer, pipe, as for *corroter, boiler*.

coverer, printer's roller, see *centraman (printer's roller)*.

coverer and liner, case (brass, jewel, pipe, etc., cases); combines operations of *brass case coverer, camera case coverer*, sometimes specifically designated, e.g. *jewel case coverer and liner, pipe case coverer and liner*.

cricket ball center maker, see *quilt maker (cricket balls)*.

cricket ball maker, cricket ball sewer; cuts sections of leather to shape by hand, or receives sections ready cut by machine, sews two quarters together, on outer side of ball, thus making half-covers; fits these halves over quilt or centre as received from quilt maker *q.v.*; sews together halves on outer side of ball, using curved or bent needles; clamps ball in a beaded cup press to depress external seams; *cf.* *tennis ball sewer*.

cricket glove maker; general term for any worker engaged in manufacture of cricket gloves, e.g. *center (dill), machinist (dill)*, and *table band (cricket gloves)* *q.v.*

cricket pad maker, cricket leg guard maker; cuts prepared and dyed leather, cane stiffeners, and padding to size, and stitches them together to form pads or leg guards.

cutter-out (work basket lining); cuts cardboard to shape for lining work baskets, using rule and hand knife; pierces cardboard with stilette, or a large awl, to make holes for reception of buttons when basket lid is being lined by work basket liner *q.v.*; measures up and cuts satin, with scissors, for lining basket, passes basket, cardboard, and fabric to work box liner *q.v.*

cycle saddle repairer; cuts out old rivets and removes worn leather and/or broken springs; refits new parts and old rivets, by machine, into place; may also rewire drive and old enamel and prepare saddle frame for re-enamelling or re-plating.

designer (soft toys); sketches, with paper and pencil, designs for soft toys of new shapes or colours, makes new toy throughout as a pattern; is often done by proprietor or manager of establishment.

diamond setter (diamond tool making); *see* diamond tool maker, *c.f.* diamond setter (jewellery trade) (184).

diamond setter, glazier's; examines diamond, which is usually smaller than that used by shaped diamond tool setter *q.v.*, and, judging by experience, selects best cutting edge; drills a piece of wire, inserts diamond therein, with cutting edge uppermost, and, seeing it in position by pressing metal on side of wire, trims setting with a file, taking care to leave cutting edge exposed, file or turns off end of wire; polishes cutting edge of diamond; inserts diamond, in setting so prepared, in a wooden handle so that exposed edge is in correct position for use in stone cutting; solders setting and diamond in position; finally polishes tool, when complete; in shape where work is subdivided, performs one or more of above operations, *e.g.* polishing, setting.

diamond tool maker; *diamond setter* (diamond tool making); (i) (abrasive wheel dressing); makes tools containing diamonds used for dressing abrasive wheels; mounts diamond in any way that may be most suitable; either drills hole in end of a steel bar, on a drilling machine; makes two saws, one right angles, across hole; inserts diamond in hole; presses peaks of metal, formed by saw cuts, on to diamond with pinners or other hand tools and braces metal setting of diamond, or drills hole in copper rod on a drilling machine; inserts diamond in hole, and secures diamond in position by punching metal round diamond with punches and a hammer to form a setting; (ii) general term for makers of diamond tools, including glazier's diamond setter, and shaped diamond tool setter *q.v.*

diamond tool setter, shaped; prepares steel holder to receive diamond, which is usually larger than that used by glazier's diamond setter *q.v.* and which he receives from polisher *q.v.*; method of preparation includes drilling of holes in holder, cutting of slots, or otherwise preparing a bed; works at bench fitted with a vice, using lutes and similar materials; sets diamond in holder, and fixes it in position either by making and inserting small wedges, or by forming small beads of metal round diamond, or in some other way; finally braces metal setting; sometimes does by glazier's diamond setter *q.v.*

dipper; *see* dyer (raffia, grasses, etc.). **doll maker**; fixes eyes in position with glue or other adhesive, or, for marionette eyes, or eyes which shut, fixes eyes on to bent wire pivot and gives mechanism into position inside head; sews stuffed fabric parts, received from doll stuffer *q.v.*, to parts made of china, wax, or other material through holes in shoulder provided

for the purpose, sometimes makes up and fits on wig.

doll wigger; makes up, arranges, and glues hair on heads of dolls.

domino maker; cuts domino blanks with small circular saw, hooding wood against page; cuts base and covers in similar manner; prints spots by feeding blanks into printing machine, altering die from time to time; inserts a black wooden or bone back to white base or wooden front with a brass rivet in a riveting machine.

draught board maker; *see* chess board maker.

driller (holes and brushes); brush driller, brush drilling hand, brush drilling machine, *see* borer.

dry plate maker (photographic plates, etc.); mixes gelatine, silver salts, etc., in solution, according to formula, to form emulsion for coating photographic plates, etc.; also special plates, *c.f.* coater (photographic plates).

dry plate worker; general term for any worker engaged in producing photographic plates, including glass worker (185), coater, racker (189), plate cutter (188), etc., *q.v.*

dyer (raffia, grasses, etc.); *dipper*; stokes fire under vats to keep dye liquor boiling; immerses raffia in dye liquor, or in case of grasses, holds bunch of grass in liquor, stirs liquor containing raffia, from time to time, to ensure even dyeing; judges when raffia or grass is dyed to match pattern; takes raffia or grass from dye liquor and hangs it up to drain; suspends it on hooks attached to an endless band, which carry it into drying machine; stokes boiler of drying machine.

dyer (photographic plates, film, etc.); *film thinner* (photographic films); immerses photographic plate or film, by hand, in a dish containing dye or stain solution, to make it more sensitive to red or yellow light, as required in certain processes.

examiner (penholders); *see* checker.

examiner (photographic plates, etc.); *plate examiner*, *paper examiner*; examines finished photographic plates, films, papers, etc., for defects, *e.g.* air bubbles, uneven distribution of coating.

factory hand (spools goods); general term for anyone employed interchangeably in a specific factory, *e.g.* in covering tennis balls or wrapping them up, in trimming feathers for shuttlecocks or in making shuttlecocks, etc.

fan maker (bady's); receives feathers in heaps, or lots, ready graded in sizes and quality, and curried, from feather dresser (182) *q.v.*, and gives them with great care on to ivory or bone mounts of fan, using small brush; presses down feathers until they adhere firmly to mount.

fan painter; *artist* (fans); paints decorative designs upon feathers and upon ivory or bone framework of fans; sometimes also, if employed by dressmaker, paints designs upon textile fabrics.

feather trimmer (shuttlecocks); a factory hand *q.v.* who cuts feathers for shuttlecocks in a particular way, as required to ensure correct balance and flight of shuttlecock.

ferrule fitter (fishing rods); pares end of fishing rod to fit ferrule; fits ferrule on rod and hammers it all round to make it grip; drills hole through ferrule and rod, inserts metal pin and rivets it home; work sometimes done by fishing rod maker and fitter (fishing rods) *q.v.*

filar (tobacco pipes, not clay); files mouthpiece, by hand, to give final shape, taking care that it is correctly balanced.

film assembler (film producing); arranges, ready for film joiner *q.v.*, lengths of film of separately photographed scenes in sequence according

to "book" of the production; cuts away rejected or faulty sections.

film joiner (film producing); joins ends of assembled new films, received from film assembler *q.v.*, or repairs damaged films by carefully overlapping and applying transparent adhesive solution.

film repairer (film producing); repairs torn or scratched films by cutting out spoiled length and inserting new film, sometimes done by film joiner *q.v.*; affixes new slotted edging to worn film.

film stainer (photographic films, etc.; *see* dyer (photographic plates, film, etc.)).

finisher, case (brush, jewel, pipe, etc., cases); completes decoration of brush, jewel, pipe and other similar cases; puts on gold lining by transfer, or brush, glues on metal mouthpiece, etc.; sometimes specifically designated according to kind of case, *e.g.* pipe case finisher.

finisher (fishing rods), rod finisher, fishing rod finisher; fishing rod polisher, moulder, polisher; reserves sections of fishing rod from fishing rod maker *q.v.*; binds polepiece or metal runners to rod, by hand, with thread; also binds rod in various places to give extra strength, varnishes whole rod, by hand.

finisher (soft toys); sews up soft toys, by hand, after they have been stuffed by stuffer *q.v.*; decorates them with paint or with coloured stitches; sews on ears, eyes, tails or other parts.

finisher (tobacco pipes, not clay); second mopper; a mopper *q.v.* who polishes pipe bowls, after staining.

fish hook tier; binds fish hook on to a short looped length of catgut with silk thread; applies varnish to joint with a brush and hangs to dry.

fishing reel maker; makes wood, wood and brass, or aluminium reel throughout; turns wood or metal parts of reels on a lathe; fits parts together, by fitting, and mounts brasswork.

fishing rod examiner; examines finished rods to detect faults in material or in workmanship.

fishing rod maker; (i) (some rods) splits lengths of cane by cutting with hand knife, into six wedge-shaped portions; glues, fits and glues together strips to form hexagonal rod, and binds with silk thread to dry; (ii) (other rods), formed to length of section of fishing rod and sections it, by fine planing, sandpapering or filing, to give balance and strength; files ends of sections to receive ferrules for socket joints and makes ferrules by cutting length of thin metal tubing with hand metal saw or machine cutter; shapes rod by cutting, grooving, abrading, etc. on a lathe; inserts and secures ferrules on ends of sections; binds sections with silk threads at intervals along section and attaches metal runner to handle; varnishes rod and binding; makes butt; (iii) winding and glueing strips of sheet cork round butt sections of rod, (b) turning solid cork to form cylinder and boring hole through length of cork large enough to admit cane rod; glues cut sections of cork on to rod and inserts other metal fittings; (iv) (wood—other than cane) receives rods trapped, *i.e.* roughly turned, and performs one or more of the various operations described above.

fitter, billiard table; **fitter-up** (billiard table); **billiard table fitter-up**; *Assemblage* (billiard table) (North of England); takes component parts, already completed, and erects and bolting parts into position; lays supports for slate bed, and lays bed, cutting and smoothing slate, if required, and using a spirit level to get a perfectly level surface; stretches, puts on, and marks cloth; puts on cushions, and

screws on pockets; often also fits up entire billiard saloon, and installs marking boards, cue racks, and overhead lighting; often also executes repairs to billiard tables and to billiard saloons, e.g. sews up rents in cloths, cuts or stuffs cushions, cuts out and sews on leather for pockets, cuts and smooths into beads round pockets, is usually a cabinet maker (473) g.v. who has been trained for fitting up by passing through the different workshops, e.g. frame making, slate masonry, brass finishing, cushion making.

fitter, bawler fitter (tobacco pipes, not clay): (i) (hand) puts mouth piece or bowl in shape, and sets lathe in motion; applies and guides tool, by hand, while mouthpiece or bowl revolves in lathe, thus drilling hole in stem of bowl and turning rebels in bowl end of mouthpiece; when mouthpiece is of composition or amber, makes mouthpiece from solid block by cutting with special care and drilling throughout; fits mouthpiece in bowl of pipe; (ii) (machine) holds bowl or mouthpiece against revolving tool, but does not cut out mouthpieces from solid block; other operations as for hand worker.

fitter, case (brush, jewel, pipe, etc., cases): glues, tacks, or otherwise fits metal fittings to interior and exterior of brush, jewel, pipe, and other similar cases; sometimes specifically designated, e.g. brush case fitter, jewel case fitter, pipe case fitter.

fitter (fishing rods): cuts and fits the two parts of ferrule sockets, on a lathe, and grooves ends of rod sections to receive ferrule.

fixer-up (billiard tables) (North of England), see fitter, billiard table.

fly book maker (fishing tackle): cuts pieces of leather, oiled silk, etc., into shape of pocket-book; turns in edges and secures by sewing in lining; stitches in squares of dannel, etc., on which artificial fishing flies may be hooked; stitches elastic or other bands to keep book elastic or other.

fly dresser, see artificial fly maker.

frame maker (wooden fixtures boxes): receives sets of frames, and glues pieces of wood, top and bottom of strawboard, ready cut to size by another worker, and nails them together, leaving lid unattached.

fraser (tobacco pipes, not clay): levels brass stem and mouthpiece, fitted together, by holding them against a revolving carbide disc, to bring them to same diameter, carefully shaping stem and mouthpiece about joint.

furnished line maker (fishing tackle): ties on hook and float to gut, and pinches-on split shot by means of pliers; winds line round spool; attaches swivels and artificial bait.

gimp hook tier (fishing tackle): a fish hook tier g.v. who ties hook on to gimp, i.e. wire wound silk, for heavy gimp fishing, etc.

glaser maker: (i) see map maker, leather; (ii) see buff and glaser maker.

gluer (lead pencil making): receives halves of sticks of pencils with edges ready glued by wood worker (lead pencil making) (489) g.v.; fits in leads and closes them together to form complete pencils.

gold club maker: receives gold club head, already turned by wood turner (489) g.v.; cuts off, with band saw, projections on head left by lathe. Drills, by machine, hole in gold club head to admit shaft; files club head to obtain correct lie; lathe makes holes in club head with noawl or similar tool; pours molten lead into hole through edge flange; screws on metal butt for end of club head; planes, files and sandpapers end of shaft until shot fits tightly on shaft; glues in shaft; sandpapers club by filing and sandpapering shaft, to get correct poise; sometimes also varnishes and polishes shaft; binds grip

on handle of club, and then binds with leather, securing them with tacks while waxed string on end of binding, to cover it, cf. gold club forger (199).

gut drawer, gut maker; catgut maker, thames maker; splits and cleanses animal gut, usually lamb's gut for strings of musical instruments; first cuts gut into thin strips with knife and then cuts, i.e. cleanses gut by pulling at narrow edge of special tool and between tool and thumb so that superfluous matter is squeezed out, strips membrane in potash and draws it over thumb, which ensures circular section and regulates size of strands; in hot drying rooms may secure length of gut to supports in bench and pulls gut to stretch it, giving it a slight twist in so doing; sometimes also does work of gut spinner g.v.

gut finisher: receives gut string from gut spinner g.v. and further twists it by means of pegs and hand wheel, while still wet; polishes and smooths surface of string by rubbing it with a leather hand pad, string under tension in drying room still dry.

gut hook tier (fishing tackle): a fish hook tier g.v. who ties fish hooks on silk worm gut.

gut spinner; catgut spinner: selects with care gut strands prepared by gut drawer g.v. and fastens a number (varying from four for a violin string to four hundred for a half inch gut band) of these thin strands while still wet on a frame to two pegs; inserts one peg into geared spindle and turns wheel by hand to twist or spin strands into a string or band.

hair hook tier: a fish hook tier g.v. who ties fish hooks on to horse hair for finnet, e.g. rearch, etc., fishing. hand machinist (scoops and brushes). see horser.

hatched stick maker: bends wood to shape of hockey stick blade by drawing it and forcing it into required shape with clamps; cuts it in two, and splits it down centre, to form four blades; glues pieces of cane together, turns them on lathe, and cuts them to shape and size of handle; glues and glues handle to blade; sandpapers and polishes the whole; and binds waxed hemp round handle with a foot or power lathe.

jockey-up (lead pencil making): places a clamp, and screws down clamp to make gluing secure; removes pencils when clamping is complete.

jug-saw puzzle maker, see wood puzzle cutter.

kite maker: (i) cuts fabric, from patterns, into shapes for kites, sometimes also designs patterns, having regard to lifting power of various types and sizes of kites; cuts out boxes in fabric or makes other provision for attaching fabric to frame; steams bamboo to straighten it, and sometimes joints lengths of bamboo, to form ribs (fishing rods); (ii) receives fabric from machinist (489) g.v. and wooden or cane strips from sawyer (481) or kite maker (i); if necessary, steams strips and bends them to shape for framework of kite; tacks fabric to frame, with hammer and tacks; in case of large kites, steams bamboo ribs in hem of fabric and binds fabric, where necessary, to framework.

lagger: (i) see overcover, boiler; (ii) covers refrigerating plant, by same process as that used by leather coverer g.v. to exclude heat from plant.

lagger, boiler; pipe lagger, see overcover, boiler.

lamp shade maker: binds lamp shade frame, with thread or other material; stretches material over frame, and stitches or glues it

to frame; sews on beads or other trimmings; cf. lamp shade maker (448) (459), lamp shade maker (paper) (558).

lead pencil maker: pencils will swivel; general term for any worker engaged in manufacture of lead pencils, including machine hand (lead pencils) (509), mill hand (lead pencils) (509), wood worker (lead pencils) (486), gluer, jockey-up and polisher (lead pencils) (490) g.v.

leaf worker, leaf maker (artificial flowers): (i) makes leaves and petals throughout by folding and putting by hand, stamped-out pieces of material, and fixing them with wire; (ii) general term for the sectionalized workers in artificial leaf making, e.g. mounter, plucker and stoker, veiner (588) and wazer (593) g.v.

liner, cabinet case: receives cabinet case or show, made by cabinet case maker (479) g.v., and takes out shelves, partitions, brackets, etc. made by cabinet case fitter (473) g.v., therefrom; removes any irregularities from wooden surfaces with a chisel; assembles and glues in padding, and also lining material, i.e. velvet, plush, satin, or other textile fabric, or paper, and cuts it to best advantage; coats inside of cabinet case with paste or glue, and inserts and presses down first bark piece and then side pieces of lining, lines shelves, partitions and struts in same way; if has lid, cuts out piece of cardboard for inside of lid, lays a quantity of cotton wool thereon, covers it with satin, and glues cardboard inside lid.

linar, case (brush, jewel, pipe, etc., cases): lines, by gluing or pasting, interiors of brush, jewel, pipe and other similar cases with velvet, plush, silk, etc., using as little as possible, so as not to saturate padding or fabric; sometimes glues cotton wool for padding on to supports inside case, taking care to discontinue cotton wool at cavity; sometimes specifically designated, e.g. brush case liner, jewel case liner, pipe case liner.

liner, table: table and cabinet liner; lines tables, bureaux, etc., with textile material or with leather, leatherette, hain, etc.; operations similar to those performed by cabinet case liner g.v., but work must be higher finish, e.g. glazing down more smoothly and fitting better; sometimes also decorates leather border of hanging, (i) by pressing metal dies round border to produce an impressed design, (ii) by gliding sprinkles brickdust on a block of stone to prevent gold leaf adhering, and lays gold leaf thereon; cuts gold leaf into small pieces; beats metal die on a gas ring, and picks up gold leaf, piece by piece, on bottom of die, and presses on leather lining, leaving gold leaf thereon; wipes die with a cloth to collect surplus gold; same worker sometimes also cuts and glues leather linings for bookcase shelves.

liner, work basket: receives work basket, cuts it out to size and shape required, carves, cuts to size and patterned, for top piece, and binds it; lines work basket by inserting cardboard over bottom and sides of basket, and stretching and sewing down satin thereon; in lining lid, glues up piece of cardboard on inside of lid, superimposes cotton wool for padding, stretches satin lining over and fastens by placing buttons over holes in cardboard and stitching them to basket, arranges folds in satin lining during stitching; makes and attaches, by sewing, satin pouches or other trimmings.

liner, work box, as for liner, work basket except for making of lid, which is made by cutting out piece of cardboard to size of lid, laying a quantity of cotton wool thereon, covering it with satin and gluing cardboard inside lid.

luggage maker (for bonnets); rolls up, in small bottles, fancy paper caps or masks, mottoes, trinkets, etc., for enclosing in body of hat boxes (cosmetics); lyasher (root toy); fastens movable limbs of soft toy animals, to body, with wire

machine worker (fishing rods); general term for any worker engaged on machine work, laths, etc., in making of fishing rods; traps wood for rods, i.e., turns it from the square to red form; also does any lath work in connection with ferns.

maker-up (fishing rods), see finisher (fishing rods).

map globe maker; makes globe frames of wood and cardboard; applies plaster of Paris and varnishes in laths against a gauge to requisite dimensions.

marker-off, see template maker.

meerschaum enameller (tobacco pipes); soaks meerschaum in warm spermaceti, and waxes it over with lac wax to obtain a polish.

meerschaum pipe maker (tobacco pipes); shapes block of meerschaum roughly by hand; soaks it in water, and chips it into shape of pipe; turns it on lathe; files it with superfine green, may also soak in spermaceti and wax it, see meerschaum enameller.

modeller (shipbuilding); makes, by hand, wax models of ships' hulls for use in experimental tanks.

model maker, ship model maker, model yacht maker; makes, with various hand tools and machine lathes, detailed models to scale of ships and their fittings; work usually done by skilled cabinet makers, joiners, pattern makers, watch makers, etc.

mop maker; (i) (male) performs, interchangeably, any of the heavier operations in connection with making of mops, e.g., stamping out cloth mop shapes on stamping machine, riveting together cloth shapes on riveting machine, attaching leather washer at each side of mop; (ii) (female) employed, interchangeably, on any of the lighter work in connection with mop making, e.g., assembling stamped shapes for riveting to form calico mops, tapering and shaping compressed felt for jeweller's finger mops, by holding it against revolving tool on a lathe, gluing mops to wooden handles or bases, threading cotton or worsted thread, by hand, through holes in wooden core and in twisting wire round thread to form brush mops; sometimes specifically designated, e.g., calico mop maker, jeweller's mop maker, polishing mop maker, rat mop maker.

mop maker, leather; *buff smoother, glazer*; makes; recovers wooden centre ready turned; beats glue and spreads it evenly upon surface to be covered, cuts chamois, sheepskin, or other leather to correct size, rubs glue into cut strip, and presses upon glue-covered surface of wooden centre; banishes wooden parts, which must be carefully selected and accurately placed, through leather into wooden centre, to tighten wood and leather and to hold glued covering securely in position.

tmopper (tobacco pipes, not clay); holds pipe bowl against revolving calico mop, covered with polish, before and after staining; cf. mopper, hard and finisher.

tmopper, hard; first mopper (tobacco pipes, not clay); mopper; e.g., who polishes pipe bowls, by holding them against revolving mop, before staining.

tmopper, second, see finisher (tobacco pipes, not clay).

mounter (artificial flowers), artificial flower mounter; prepares; recovers flowers and leaves, wire, sheet fabric, strip fabric (for binding), paste, etc., and patterns of spray to be mounted; makes up sprays from these materials, varying methods as required in each particular case; parties end of triangular piece of fabric over a

length of wire, bends wire to shape of ellipse and gathers up bunched fabric with needle and thread, to form artificial leaves; arranges a number of flowers and smaller leaves along stalk of larger leaf so made, selecting flowers and leaves so as to reproduce pattern as nearly as possible; binds strip fabric round wire stalks to form one main stalk, passing down strip as it is rolled.

painter (artificial flowers), leaf and fern painter; (i) paints natural leaves by hand; (ii) *see* shander paper maker, cyanotype; architect's photographic paper maker, engineer's photographic paper maker; weighs or measures out, according to formula, constituents of ferro-cyanide solution, with which paper used for making blue prints, etc., for architect's or engineer's drawings, is sensitized; mixes constituents in a vat or other receptacle to form solution; places rolls of paper in supports in machine; guides and rolls to first rollers and so through machine; turns screws to adjust speed of rollers and thereby regulate flow of solution to paper; catches end of paper as it comes off heated roll on which it has been dried, after which it is on a reel and engages reel in automatic feeding attachment of machine; cf. coater.

pattern maker (artificial flowers); an artificial flower maker e.g., making sample flowers or inventing new designs.

pencil mill worker, see lead pencil maker.

photo frame coverer; stretches and glues or tacks cloth, leather, velvet, paper, etc., over padded photograph frame; sometimes specifically designated according to material, e.g. photo frame plush coverer.

photo frame maker, photograph frame maker; makes photograph frame from pieces of wood, which he saws, by hand or machine, and shapes with chisels, gouges, and other tools; fastens pieces together, with glue or iron wire to make complete frame; cuts out leatherette, velvet, or other material and glues it on to frame; cuts glue to fit frame.

piquetter, see mounter (artificial flowers).

pipe maker (tobacco pipes, not clay); general term for any worker engaged in any process of pipe making, including fitter, finisher, filer, line fitter (669), punnier (669), stainer (668), mopper, wire borer e.g.

pipe, repainer (tobacco pipes); is usually fitter (tobacco pipes) e.g., having a general knowledge of pipe-making, who specialises in repairing pipes, principally by fitting new mouthpieces and replacing burnt bowls, selects required part, of approximately correct shape and size, from stock and adapts it by turning, filing, drilling, etc., or a combination of cuts composition or amber mouthpieces from solid block, e.g. fitter (tobacco pipes); sometimes also cuts out new wooden pieces, and glues them to broken ones, or cuts out metal bands to fit them in, cf. band maker (688).

plate dryer (photographic); is in charge of hot air drying room where coated photographic plates are placed to dry; regulates taps and valves governing volume and temperature of air which is allowed to pass through drying rooms to dry plates after coating.

polisher (fishing rods), fishing rod polisher, see finisher (fishing rods).

polisher (for shaped diamond tools); mounts diamond in holder called a dop, which, in turn, is held in a tool, suitably adjusted, so that portion of diamond to be shaped or polished comes in contact with a dop, charged with diamond dust and revolving at a high speed; decides how

much stone must be removed, and angle of clearance from cutting edge, etc.; cf. polisher (686), diamond polisher (693).

powder puff maker; sews together two circular pieces of down-covered goose skin, as received from carter (542) e.g., over a padding of cotton wool to make powder puff; also sews on ribbon or other trimming.

puller-up (artificial flowers); works at bench on which a hundred or more cotton threads are arranged in parallel to dry after having been passed through a trough of liquid starch; sets up apparatus by threading each thread from its bobbin under roller in starch trough and through holes in two sets of reeds on bench; when starched thread is dry, pulls up each thread and stretches over an additional part of bench through a third reed; change parallel threads in position by means of a number of wooden rods placed across and fastened together in pairs, i.e., one rod above and one below threads, by means of spiral springs; seed maker, who has cut threads with knife, between each pair of clamping rods, assists him to place rods on laths; when seeds, berries, etc., have been made by seed-maker by dipping, unclamps rods and makes up bundles of seeds, etc., tying them together with thin wire; may also box seeds, etc.

quilt maker, quiltar (cricket balls); cricket ball centre maker; wraps warped thread, by hand, round a cork to make quilt, or core, of cricket ball, taking care that thread is evenly distributed; when large enough places quilt in cup, equal to half weight of cricket ball, sunk in a bench, and strikes it with a hammer or mallet to harden it; while hammering, turns quilt round from time to time.

racquet finisher, tennis racquet finisher; binds tennis racquet frame, by hand, with silk or gut where it joins handle, work usually done by racket stringer e.g.; cuts leather and tacks strip round rim at end of handle; sometimes also polishes racquet; cf. polisher (498).

racquet maker; turns handle on a lathe, glues it on to racquet frame, and clamps the whole in a frame to dry; trues and smooths racquet with knives, rasps, and files; drills holes and cuts grooves for gut; drives screw through sides of frame and handle; and clamps in a cup, with sand-paper, sometimes also strings, polishes, and finishes racquet, see racquet stringer, tennis racquet polisher (498), and racquet finisher; sometimes specifically designated according to type of racquet, e.g., tennis racquet maker, racket racquet maker.

racquet stringer, badminton racquet stringer, squash racquet stringer, tennis racquet stringer; punches holes in frame of racquet with an awl, and threads gut through holes, beginning with the longitudinal strings; tightens these strings, beginning at centre and working towards sides; decides when correct tightness is reached by repeatedly vibrating strings, and noting their pitch or tone, taking care that tension is not unequal at different points; threads horizontal strings, and makes them tight as possible; watches frame of racquet while stringing, and, if it shows signs of warping, adjusts tension of gut accordingly; binds frame where it joins handle of racquet with tape, or silk thread, sometimes also varnishes frame and strings and polishes frame, but usually passes to tennis racquet polisher (498) e.g.

racquet string maker, as for gut drawer.

razor case maker; general term covering all makers of razor cases, including cabinet case maker (473), fancy leather worker (568), razor case maker (proper maché) (558) e.g.,

rocking horse maker; builds together wooden parts of child's rocking horse, and carves it into semblance of a horse; paints it in colours; glues or nails on mane, tail, etc.; cuts out and marks on leather harness fittings; sets

up horse on rockers.
saddle maker, saddle worker (cycles and motor cycles); uts and dresses leather for bicycle or motor bicycle saddles, blocks to shape; fits together, rivets, and adjusts parts of saddle.
salmon fly maker, or for artificial fly hooks

synonym, mantle; gas mantle

seasoner; in each second mantle seasoner; (ii) (upright mantle) burner-off, mantle burner-off, mantle burner-off, mantle burner-off, mantle burner-off girl; (iii) (suspend mantles, in arts of & to 25, by loose under gas jets or burning off machine; brings lighted jets in touch with mantles and allows flame to burn down mantle from top; in single gas jet or flexible tubing inside each mantle and slowly withdraws flame; allows mantles to cool and removes mantles, one by one, to adjacent seasoning machine and suspends by legs; (iv) (inverted mantle) gas jets and operates covers, causing gas flames to move upwards inside mantle; (v) (inverted mantle) places grids of burned-off mantles on supports in seasoning machine, operates cover which causes gas flames to move downwards inside mantles, and a tap which regulates pressure of gas and heat of flame; watches operation through green screen and stops process of shrinkage when shrinking ceases; when cool removes grids for dipping.

used maker (artificial flowers); makes artificial seeds, small berries, stamens, and flower umbels, by hand, from wood, paper, or papier mâché, and paints them by dipping or with a brush; takes small pieces of wood, prepared by pulper-up q.v., and splits them by twoen each pair of clamped rods, leaving short pieces sticking out stiffly on each side of rods; prepares paste, made of gum, farina, and color (e.g. potato flour), and stamens and color matter, unless this is done by manager, and pours it in a long shallow isetal trough; dips ends of threads, still clamped between rods, in trough of paste, and stands them on rack to dry; re-dips ends of threads many times; allows threads to dry; has paste has formed thereon resembling article, e.g. stamens, seed, berry, which is being imitated; finally varnishes berries, by dipping in

shades (artificial flowers, etc.), flower
shades, leaf shades; colours,
painter (artificial flowers); mixes
colours with spirit until desired shade
is obtained; paints a number of petals
or leaves with matt or basic tint,
using a brush; when this has dried,
applies second tint, and continues
process; also paints on veins of
leaves or markings on petals; some-
times makes veins with a plaque,
i.e. stencil; work sometimes done by
hand and sometimes by machine.

shuttlecock maker; a factory hand p.p. who cuts corks, and bores holes therein, stamps out leather covers by placing cutter on a sheet of leather upon a sliding table, and sliding both under an automatic power press; sews on leather covers, and sticks in feathers, securing them with glue; weighs and measures cork, leather, feathers, etc., during and after manufacture, to see that they comply with requirements of Badminton Association.

spectacle case maker; (ii) controls and feeds machine which automatically moulds spectacle cases from specially prepared paper sheets; (iii) cuts out, by hand, cardboard nose and bridge; it round to required shape and glues it; cuts out leather or leatherette

cover, by hand and glues it on to case; (fis) a case coverer and liner g.v. who works upon spectacle cases, spinner (musical instrument strings), see string coverer.

spout maker (miller's); a millwright (212) g.v. or a carpenter or mill-jolner (474) g.v. who makes and repairs wooden and/or metal spouts, used for conveying grain, flour, or meal, from one department to another; is responsible for seeing that spout valves, slides, etc., are in proper position and for uninterrupted flow of flour through spouts; cf. *millwright* (468)

sprayer (artificial flowers and leaves).
fills container of spraying apparatus
with basic colour; pulls trigger, set-
ting apparatus to medium, and sprays
leaves or petals therewith; fills con-
tainer with second — or — and sprays
edge or other part of leaves or petals
therewith; places leaf or petal in
position so that colour shall fall upon
it at correct angle, and in correct
quantity; work sometimes done by
shades p.v.: cf. sprayer (1889).

sticker, leaf sticker (artificial leaves);
wires (artificial flowers); lays wire
along back of leaf, and sticks leaf to
it with paste and a thin strip of fab-
ric; rolls protruding end of wire in
strip fabric to form stalk of leaf.

stiffener (artificial flowers); stiffen material, before it is cut, by dipping it in starchy liquid or by painting it with preparation of starch, mixed with water, e.g., starch, linseed oil, glycerine, etc., for stiffening medium, boiling them if necessary, and taking care to get stiffening agent to exactly right consistency and strength; hooks material to be stiffened on pins placed round edge of material, exposing back of material for stiffening; backing lining velvet, or similar material, pasted on kind of gauze, with starch, on back of material to strengthen it; in stiffening lawn, dip it in boiling water, wrings it out, and hangs it up to dry.

hooker (whips), whip stoker; (iv) (steel lined whips) cuts canvas on circular saw for whip handles of required length, straightens them by hand and puts into wood-turning machine which tapers them to the ends, then down middle and grooves them by machine, inserts steel wire into groove, and glues split parts together by hand, binding them temporarily with rubber bands; until set; removes cotton basting, planes smooth when set; (vi) (whalebone lined whips) beats square section strip of whalebone and pulls or bends it into round shape; squares it up and tapers it with a plane; waxes and binds with dex (too) by hand; splits long canes and shapes them with a four V-shaped strip by hand with a knife; waxes ends and places round whalebone contour in place with string; pieces stock in cording machine rod, assisted by a hor. covers stock with fine whip cord with seven lps; finishes; fixes cord with seven lps.

string *veer*, musical string
coverer; musical string - maker,
spinner (musical instrument string);
string maker (covered string); secure
end of metal, gut or silk string; secure
covered, also end of covering wire,
on hook of twisting machine; place
covering wire in a reel and secure
other end of string on another hook,
making string taut; switches on
power so that hooks revolve and
covering wire is spun spirally upon
gut or metal string; stops machine
when gut covering wire at end of
string.

string coverer (piano), covered string maker; piano string maker; covers steel piano wires, by machine, after even have been put on ends by eye maker (STB) p.v., with copper wire of various thicknesses graduated according to tensile strain required, from steel wire on to machine and feeds machine with correct wire.

tetrting maker (gut), gut string
maker: musical string maker;
general terms covering makers of
gut strings for musical instruments,
including gut drawer, gut spinner,
gut finisher.

string maker, musical: (i) see **string maker (wire, for musical instruments);** (ii) see **string maker (gut);** (iii) see **string coverer, musical.**
string maker, piano, see string

coverer (paizo).
 telefon maker (uina for musical in-

[illegible]

stuffer, doll; runs sawdust, or other stuffing, tightly, in body or limbs of dolls, with a rammer, i.e. a short wooden stick, and sews up body, limbs, etc., by hand, with needle and thread.

stuffer (soft toys); silk covers, sewn by machinist (419) g.v., with flock, vegetable down, or other packing, by hand, and presses it tight with a stuffing rod, moulding shape with hands to resemble animal, etc., to be represented.

*surgical gut maker, surgical gut worker, surgical string maker, or for gut dealer.

<p>batting gloves; puts layer of tow, or substitute, between front and lining of wicket-keeping gloves; or pads back of wicket-keeping or batting gloves; sews on fastenings.</p>	<p>batting gloves; puts layer of tow, or substitute, between front and lining of wicket-keeping gloves; or pads back of wicket-keeping or batting gloves; sews on fastenings.</p>
---	---

tackle tier (fishing tackle); ties bait and hooks, or hooks only, on to gut and lunds with silk; waxes silk in binding it by rubbing wax on silk; exercises great care in tying and arrangement of hooks and bait to regulate strength of pull; poorer quality tackle is prepared by furnished line maker s.e.

target maker; makes archery targets or toy targets, either of straw, by binding it and forming it into rolls in shape of target, or of cork or wood, by turning on lathe; paints bull's eye and coloured concentric rings on target.

template maker; (II) marker-off; makes patterns or templates by nailing laid together to required shape and size, for marking off plates in shipbuilding, etc.; (III) cuts wood, tin plate or other sheet metal to shape, according to drawings supplied, for use in cutting out copper, brass, etc., articles, or in marking off plates; cf. plaster (2225).

tennis ball coverer; (i) smears glue on rubber balls, and works it into rubber with hands; when rubber is worked to correct state, presses on felt cover; clips off overlapping or ragged scraps of felt; sometimes also does work of tennis ball coverer.

tennis ball sewer, tennis ball
stitcher; receives ball, from tennis ball
corer g.p., with seams already stuck
down, and stitches seams with needle
and thread, taking care not to pierce
rubber with needle; places ball in a
heated cup press, where two halves
of cup enclose ball, and moves lever
to operate press; applies steam jet
to ball to remove ridge left by seam.

plates, etc.), a skilled workman employed on routine tests of finished photographic plates, under direction of a specialized chemist; exposes plates to light of standard illuminating power and at a specified distance from plate; prepares developing and fixing solutions, and develops and fixes plate; examines developed and fixed plate to see that it conforms to requirements as regards appearance, evenness of tone, etc., and reports

tester (printers' rollers); places rollers when trimmed by trimmer (688) on small V-shaped tentles and examines them for correct alignment, smoothness of surface, etc.

+tharize maker, see gut drawer.

theoretical property maker; constructs animals, furniture, architectural fittings and other stage properties of wood or sometimes of paper miche; if working in wood, marks out shape of object with pencil; cuts out parts with hand saw or circular saw, and nails, screws or glues parts together; if working in paper mache, pours water and paper paste into a plaster of Paris mould, and drops small pieces of paper into paste, or uses paper mache powder to make required composition; turns out casting, so formed, when it is dry enough; sometimes also makes mould, cf. papier mache hand (558).

thene maker (whips); braids cotton, by machine, or to strips of calico to form separate thens; uses a machine to whip handles; cf. whip thong maker (348), and whip braider.

toe cornerer; covers handles of togs used by furriers, etc., by winding them round by hand with asbestos or other heat insulating material.

toy maker, see general term for any person engaged in making soft dolls, animals, etc., including designer, cutter (403), machinist (419), stuffer, finisher, lyner, etc.; often also makes tea caddies, hot water bottle covers, etc.

whip braider; places bobbins, filled alternately with cotton and gut, in braiding machine; suspends stock over centre of machine and attaches weight to end of stock to pull down slowly as braiding proceeds; fixes ends of cotton and gut to whip stock; pulls lever to set machine in motion; if cotton or gut breaks under strain, repairs it by hand.

whip finisher; fixes brass or white metal mounts on whip handles by means of heated powdered resin, and nails them in position with small tacks; draws on stitched leather sheath, and fixes it on handle by glueing; cleans up and polishes whip ready for packing.

whip maker; general term for workers engaged in making and assembling whips, including whip stuffer, whip braider, whip finisher, paper-on (whips) (689), whip handle stitcher (348), and whip handle coverer (355) q.v.

wire (artificial flowers); (i) see stickler (artificial leaves); (ii) see artificial flower maker (paper flower making).

twoed puzzle cutter; figures puzzle maker; cuts figure puzzles with jig or fret saw; sometimes stencils outline, or draws outline freehand in pencil, on back of puzzle, to guide him in cutting outline, but often cuts puzzle without first marking it in any way.

work basket fitter; affixes metal catches and fastenings, by screwing, clamping, or luting, on interior and exterior of a hat's work basket.

work box fitter, as for work basket fitter.

wreath maker (artificial flowers), artificial wreath maker; (i) an artificial flower maker q.v. who makes up wreaths or sprays of artificial flowers; (ii) builds up, usually on wire foundation prepared by wire frame maker (278), funeral wreaths of artificial flowers, leaves, grasses, etc.

689... OTHER WORKERS.

assembler (trouser presses); screws together wooden lengths and metal cross pieces of trouser press; screws on press-screws, and trouser stitching apparatus; puts two or more sheets of cardboard between bottom and top, and screws up.

baft painter; paints with bright colour, by hand, metal imitations of baft made by baft maker (688) q.v.

bobbins tip fixer (textile machinery); fixes metal tips or shields on wooden or paper miche bobbins, by hand or with a power or hand press, to prevent friction on spindle.

bust fitter; receives bust from bust maker (558) q.v., and wooden plasters, cut to shape, from a saw mill; chooses plasters of suitable age and size and nicks them into bust.

button borer, see button driller.

button bottomer; takes off rough parts, levels back and front of button blank, and reduces it to uniform thickness; fits blank into chuck of a small lathe; starts lathe by hand lever, and presses a cutting edge against blank by hand; removes turned blank and repeats operations.

button burrisher, see button polisher.

button cleaner; button dipper; cleans vegetable, ivory and mother of pearl button blanks, by dipping them in vats of chemicals and wiping them dry, in preparation for polishing.

button cleaner; finishes backs of metal buttons, made in two parts, to front, and classes them up by hand or in a press machine.

button cutter; cuts button moulds or blanks from various materials by hand or by means of automatic cutting machine; for metal or celluloid buttons, places sheets of metal or celluloid under an automatic or hand-worked stamping machine fitted with dies; operates machine by hand or by means of hand lever; removes cut blanks by hand; for composition, vegetable, ivory or pearl buttons, cuts button blanks by means of mechanically-driven tubular saw, operated by means of hand lever; holds sheet composition or other material against revolving saw edge, and cuts each blank separately.

+button dipper, see button cleaner.

button driller; button lover, button holder, button piercer; makes holes in buttons by inserting button in a chuck under the automatic drilling machine, operated by means of hand lever; removes drilled button and places fresh button in chuck; occasionally drills button with hand drill, the blank being fixed in a chuck.

button faker-out, button finisher, see button polisher.

button borer (button making), see button driller.

button maker; general term for workers who assemble previously prepared parts of buttons.

button maker, linen; operates machine for making linen buttons; feeds machine with linen discs and metal rings and depresses levers governing mechanism joining linen and metal.

button piercer, see button driller.

button polisher; button burrisher, button faker-out, button finisher; holds button, either in hand or in hole chuck, against revolving mop; feeds mop with wet or dry polishing composition.

button raiser, as for button stamper.

button shaker; fixes shank, i.e. part of button sewn to fabric, on button, by placing shank in a chuck in top half of press, and button rest in bottom half of press, and operating lever by hand, causing shank to be pressed into back of button; removes completed button.

button sorter; examines buttons and rejects faulty work; sorts buttons according to size and quality.

button stamper; stamps design on button mould or blank by hand or power press; places blank in bottom half of press; fits die in top half of hand lever, or by turning a hand screw; removes stamped button from press.

carrier-off (photographic plates, etc.), see putter-up.

cleaner (photographic plates, etc.), glass cleaner; glass washer; places glass plates, where they are coated with emulsion, on travelling band of machine, which carries them past brushes revolving in water or in

cleaning solution, e.g. soda and water; switches machine on or off as required.

collector, glass collector (photographic plates, etc.); collects plates from coating machine, places them in racks, and carries racks and plates to drying room; removes racks of dried plates for packing.

dipper, mantle dipper, gas mantle dipper, incandescent mantle dipper; dips soot-soaked mantles in a colloidal solution and places in colloidal dipping oven to dry, so that mantles assume a flexible protective coating.

doll dresser; receives body and limbs from doll stuffer (688) q.v. and doll's clothes from machinist (419) q.v.; sews limbs to body of doll by hand, with needle and thread, and attaches doll's clothes by fitting them, and sewing them in position.

factory band (diamond tools); assists diamond tool maker (688) q.v., files, solders, screws, and does other less skilled work in connection with diamond tool making.

feeder; putter-up (photographic plates); puts glass plates on travelling-band of plate coating machine.

film cutter (photographic films), film splitter; (i) cuts rolls of celluloid film at back of cutting machine, switches machine on or off as required, and regulates speed of machine; regulates amount of film thrown forward to be cut by adjusting film support; (ii) cuts film to required dimensions in small hand guillotine.

film spooler (photographic films); places spool, which is to receive film, on spindle of machine; places film, and paper covering it, accurately at point indicated by mark on machine; slips end of covering paper into slit in spool; moves switch or lever to set in motion machine, which automatically winds film and covering paper round spool.

fine finisher (ebonize pipes, not day); holds mouthpiece against revolving felt-covered disc covering roll; is often done by polisher (wood pipe) (690).

freighter maker; (i) makes up bundles of chips, sticks, shavings, etc., and wires or ties them together; sometimes also dips them in combustible materials; (ii) feeds runners of machine which makes sawdust with groove and compresses it into cakes; stacks cakes on racks to dry; when cakes are dried, cuts them on circular saw into prescribed sizes.

fy paper maker; (i) passes papers, which are ready cut to shape and size required, through a slit in gumming apparatus, where they are automatically gummed on both sides, and pulls them through on other side; (ii) torn loosely applied to cover all persons employed in fy paper factory, including those engaged in folding up or rolling paper, boxing or packing it, stamping out tin plates to be used in making containers, and in fitting together parts of tin containers round a roll of fy paper and passing and off roll through a slit in one of sides.

glass examiner (photographic plates); examines glass plates, for defects, after they have been washed and before they are coated with emulsion.

glass washer (photographic plates), see cleaner.

roffer (artificial flowers); curls edge and presses petals into shape with hand roller, a gas or electric heated iron of special shape.

impregnator (incandescent mantles); soaks mantles in solution and passes through rollers to abstract surplus fluid.

ink pad maker, ink pad worker; stamping pad maker; covers small slab of wood with linen; stuffs with cotton wool or similar material, between wood and linen; secures the whole, and soaks pad in ink; fixes pad in tin box.

ironer (artificial flowers); (1) polishes artificial leaves, grasses, petals, etc., with hot iron; (2) irons natural ferns after they have been dyed by shadder (688) g.v.

mangle maker, gas mangle maker, incandescent mangle maker; general terms for any worker engaged in any process of gas mangle making, e.g. burner-off (688), seamer (688), dipper, impregator, sewer (419) g.v.

mould maker (artificial flowers); feeds mould or jig with cotton wool, which is caught up by a spindle revolving horizontally in mould, breaks off wool when enough has been caught up, and applies paste with a brush to wool, revolves on spindle, thus shaping and compressing it to form artificial fruit, berries, etc.; pulls a lever which releases moulded wool, and withdraws mould and wool from revolving spindle; takes wool from mould.

mounter, puzzle mounter; pastes puzzle picture on face of puzzle, with brush and paste, and packs puzzle; often does other unskilled work in factory during slack periods.

oller (printer's rollers), dips mop in oil and rubs up and down inside surfaces of cylinders of mould gun, *see* centremen (688), to ensure that composition will not adhere to mould on cooling; assists centremen in charging mould guns, carrying spindles, etc.

paper-on (whips); passes paper on prepared cane handle of whip by hand; *cf.* whip stocker (688).

preserver (artificial flowers); covers natural grasses, flowers, etc., with preservative varnish or paint by dipping, spraying, etc.

printer-on (photographic plates), *see* feeder.

putter-up (photographic plates); carries-off; carries racks of coated plates from coating machines to drying room.

racker (photographic plates); takes coated plates out of coating machine and places them in racks to dry.

reeler (photographic films), as for reeler (photographic paper), except that machine is smaller and rolls shorter than those used in paper reeling.

reeler (photographic paper); receives paper as it comes from drying room; guides end of roll of paper through feeding machine; lays paper round a beam or spindle, and clamps this in position in machine; switches on power to set machine in motion; watches reeling carefully, and regulates speed of running of rollers to adjust tension on paper as it is being rolled.

sock cutler, sock maker; cuts out socks of cork, felt, leather, etc., for insertion in boots and shoes, by machine press and cutting, etc., by hand or power shaver; sometimes specifically designated, e.g. cork sock maker.

sorter (photographic plates, etc.); sorts out different kinds and thicknesses of glass, etc., on arrival at factory, before they receive treatment of any kind.

sprayer (artificial flowers and leaves); spreads a length of fabric on bench; fills container of spraying apparatus with basic colour, which is made mixed; pulls trigger, setting apparatus in motion, and sprays fabric with basic colour; fills container with second colour and sprays fabric there-with diagonally at intervals, in narrow stripes, so that shading effect is produced in petals, etc., when cut from fabric; *cf.* sprayer (688).

stamping pad maker, *see* ink pad maker.

stripper (printer's rollers); strips worn composition from metal spindles of printer's rollers with small hand knife; wipes spindles

clean, ready for painter (printer's rollers) (692) and centremen (688) g.v.

syringe cottoner; hands cotton, by hand, round plungers of syringes, usually also boxes and wraps up syringes.

tag maker (paper fasteners); performs one or more of following operations: cuts thin sheet brass into strips, by turning handle of small hand cutting machine; cuts strips on same machine into pieces suitable for stamping; stamps pieces to channel-shaped section in a stamping machine worked by foot treadle, *cf.* stamper (284), cuts cord to short lengths with scissors or hand knife; inserts and of cord into channel-shaped sections of brass strip and closes sections by pressing foot treadle of stamp which bends over and fastens such sections; sometimes also makes boot laces in same way, *cf.* boot lace tapper (426).

tipper (penholders); places steel tips or holders on pen sticks.

trimmer (printer's rollers); trims rough ends of composition rollers after covering by centremen (688) g.v. and prior to examination by tester (688) g.v.

vulnar, vulnar and marker (artificial leaves); lights gas warming bed of sheets a leaf, from tray of out leaf-shaped, and places it in brass reining mould, places mould in bed of machine; turns wheel which causes press to descend upon mould and so vein leaf; reverses wheel to raise press; takes out veined leaf, puts in another leaf, and repeats process.

waxer (artificial flowers); stiffens, by hand, finished artificial flowers by dipping them in warm wax; sometimes also dips them in chemicals to make them waterproof.

wool charger (surgical appliances); packs wool into padded instrument cases, or into padded parts of surgical appliances, and sews up casing, as required, to make complete.

ORDER XXI.—PERSONS EMPLOYED ON GAS, WATER AND ELECTRICITY UNDERTAKINGS (not elsewhere enumerated).

690.—MANAGERS.

assistant engineer (waterworks); in provinces performs duties described under district engineer (waterworks) g.v.

chief assistant engineer; sees that estimates for new and repair work are accurately compiled, that plans and specifications are prepared, that stations and sub-stations are properly and adequately equipped, etc.; from time to time goes to inspect new or repair work in hand; supervises work of resident engineers at sub-stations; works under instructions from and in close and constant collaboration with chief engineer g.v.; assists chief engineer generally, and takes his place when he is absent.

chief engineer; engineer, head engineer, water engineer (waterworks), superintending engineer, superintendent; is responsible to board of directors (or to committee of local authority) for technical side of electricity or waterworks undertaking, including development work and equipment of stations; causes plans, estimates and specifications for new and repair work to be prepared; gives technical advice to resident engineers, mains engineer g.v. and other subordinated officials; in undertakings where chief assistant engineer g.v. is not employed, supervises work of resident engineers,

mains engineer, etc.; visits new or repair work in progress, and sub-stations; in small undertakings often also acts as general manager g.v. *conveyancer* (electricity supply), *see* consumer's engineer.

consumer's engineer, consumer's installation engineer (electricity supply); consumer, installation engineer, service engineer; a technical engineer who interviews prospective consumers and points out advantages of electric light or power and advises them as to installation, etc.; takes measurements and gives estimate of cost; when such work has been carried out, examines work after completion to ensure that it meets customers' requirements; investigates complaints; collaborates with sales department and sometimes in small undertakings, takes charge of that department; *cf.* sales engineer.

distribution engineer (gas works); in charge of distribution department of gas company; is responsible for preparation of plans for laying of mains, opening up of new districts, maintenance of meters, pipes, mains, burners, cookers, street lamps, etc.

district engineer (waterworks); (London) in charge of water distribution in a district; is responsible to chief engineer g.v. for water mains and plant in his district, also (except at stations where a resident engineer g.v. is in charge) for filtration and pumping; usually a qualified civil engineer; outside London, corresponding officer is more usually called assistant engineer g.v.

engineer, superintending engineer (waterworks); *see* chief engineer; (in waterworks) also visits pumping stations, reservoirs and filter beds from time to time.

gas engineer (gasworks); a technical engineer responsible for efficient working of gasworks and for upkeep of plant therein; approves plans and estimates for new and repair work; orders repairs to be executed where necessary; sometimes responsible for payment of wages to manual workers; in small works often combines duties with those of general manager g.v.

head engineer (waterworks), *see* chief engineer.

installation engineer (electricity supply), *see* consumer's engineer.

mains engineer, mains superintendent (electricity supply); a technical engineer responsible to chief engineer g.v. or chief assistant engineer g.v. for the whole network of mains from power station to consumers' premises; issues orders for minor repairs on his own responsibility, or, when expenditure is likely to be considerable, submits estimates to chief or chief assistant engineer; superintends execution of all repairs; also supervises new work according to plans and specifications supplied by chief engineer.

mains surveyor (electricity supply); surveys mains and is responsible for records and charts of entire distributing system between power station and consumers; prepares plans for extension of mains.

manager, general manager; has general administrative (and sometimes also technical) control of the whole undertaking for supply of gas, water, or electricity, subject to approval of board of directors, or of committee of local authority in matters of policy, or where a large expenditure is involved; submits reports to directors or committee regarding new works or extensions or improvement of plant, increase or reduction of staff, staff promotions, alterations in scale of charges; in smaller undertakings, where term is chiefly used, is often also chief engineer g.v. and sometimes also secretary (590) g.v.

meter superintendent, meter engineer (electricity supply); responsible for efficient organisation and working of meter department; supervises allocation of work and issues orders to meter fitters (309) g.v.; ensures that work is promptly and efficiently performed; acts in co-operation with sales department and with consumer's engineer g.v.

resident engineer (electricity supply); station engineer, station superintendent, works engineer, works superintendent; a technical engineer who either resides at a station or is temporarily available when required, in order that uninterrupted supply of electricity may be maintained at all times; rectifies small faults in running of generators and plant, or instructs repair gang to effect repairs; meanwhile orders, if necessary, isolation of generator and starting of reserve to maintain supply; where considerable expense is involved, reports to chief or chief assistant engineer g.v. before undertaking extensive repairs.

resident engineer (waterworks); resides at waterworks and is in charge of all staff employed thereat; responsible to chief engineer g.v. or to assistant or chief engineer g.v. for general maintenance of his station, for pumping, filtration and storage of water and for minor repairs to plant, as larger stations, where pumping and other machinery is installed, are usually a technical engineer; at smaller stations, particularly those where there are only filter beds, has position approximately to that of foreman (602) g.v.

resident engineer, assistant (electricity supply); takes place of resident engineer g.v. during night shift, or when resident engineer is absent; duties are generally similar to those of resident engineer g.v. except that extensive repairs would not be undertaken without sanction of resident engineer.

sales engineer, sales superintendent (electricity supply); a technical engineer in charge of sales department; may also be in charge of a demonstration station, which may or may not carry out contracts for installation, etc.; interviews customers and gives advice as to use of electrical appliances, and recommends type most suitable for customers' requirements; may also be consumer's engineer g.v.

service engineer (electricity supply); see consumer's engineer.

station engineer, station superintendent (electricity supply); see resident engineer (electricity supply).

station engineer, assistant, or for resident engineer, assistant (electricity supply);

superintendent (waterworks), see chief engineer.

water engineer, see chief engineer, works engineer, works superintendent, see resident engineer (electricity supply).

691.—CHARGE AND SHIFT ENGINEERS.

boiler house engineer, boiler house superintendent (electricity supply); in charge of steam raising plant; watches pressure gauges to ensure that correct steam pressure is maintained; supervises stokers and sees that fires are regularly fed and that ashes are properly disposed of; supervises minor repairs under general direction of resident engineer (600) g.v. or assistant resident engineer (600) g.v.; usually works during day shift only, corresponding duties during night shift being taken by boiler house shift engineer g.v. **boiler house shift engineer (electricity supply);** in charge of boiler house during shift; sees that plant is running correctly and that steam pressure is maintained, duties

generally similar to those of boiler-house engineer g.v., except that he would not without authority undertake, or order to be undertaken, any but slight repairs.

charge engineer, see shift engineer.

charge hand (electricity supply); a turbine or engine driver who is directly responsible to charge engineer for operation of turbine plant, and controls and supervises all other drivers; an occasional grade only.

distributing station engineer (electricity supply); is responsible for mains in streets, and for their regular inspection, testing, maintenance and repair.

engineer, engineer-in-charge (electricity supply); usually indicates shift engineer g.v.

shift engineer (electricity supply); charge engineer, engineer-in-charge; has charge of engines and dynamo-electric machinery in power station during shift, and is responsible to resident engineer or manager (600) g.v. for efficient running of plant during his shift; superintends repairs or cleaning of machines temporarily out of gear; is in charge of switchboard attendants (604), cleaners (600), stokers (601), etc. g.v.; in larger undertakings, work is shared by boiler house shift engineer g.v.

street lighting engineer (electricity supply); is responsible to mains engineer (600) g.v. for maintenance of lamps, for change of current or of circuits, etc., and for street lighting generally; visits districts from time to time to ensure that lighting arrangements are satisfactory; superintends work of public lighting foreman (602) g.v.

sub-station engineer (electricity supply); maintains uninterrupted supply of electricity from sub-station; isolates faulty generators and switches in spare machine; carries out repairs necessary; keeps log giving output of motors and demands upon them; reports faults to resident engineer (600) or chief engineer (600) g.v. duties somewhat similar to those of resident engineer (600).

turbo house superintendent; a shift engineer g.v. in turbo house, who watches machinery and ensures that motors are carrying their proper load.

work lighting engineer (electricity supply); is responsible for efficient running of electricity generating plant for supplying lighting for large factory or works; superintends work of men firing boilers, tending steam turbines, dynamos, transformers, boiler feed pumps, switchboards and similar machinery or apparatus.

692.—INSPECTORS AND FOREMEN.

boiler house foreman (electricity supply); supervises running and repair staff employed on steam raising plant; sees that work of stokers (601) g.v. is properly performed and that correct steam pressure is maintained; is responsible to boiler house engineer (601) or to resident engineer (600) g.v.; is usually employed only by larger undertakings.

box inspector, box cleaner (electricity supply); crawler, wander, draft attendant; inspects, cleans, and reports defects in distributing cable-beds and manholes in streets and roadways; ladies out any water that has entered cable-box or man-hole; reports presence of gas escaping from adjacent gas mains; cleans joints; sometimes also paints connections red, blue or black (indicating positive, negative or neutral); scrapes dirt from ledge of cable-box or man-hole and greases ledge to make joint round lid watertight; reports subsidence of pavement near cable-box or man-hole, or defective gables. **box inspector, caulker, see box inspector.**

coal foreman, coal inspector (gas works); supervises unloading of trucks or barges of coal by labourers, and filling of coal stores, keeps record of coal received and stored; judges condition of interior of coal stack from time to time by touching an iron rod thrust into stack; orders stack to be dismantled if red is hot to shrieve risk of fire.

coke inspector (gas works); investigates complaints from consumers as to quantity and quality of coke supplied.

distributing station inspector (electricity supply); sub-station inspector; a higher grade sub-station attendant in charge of one sub-station attendant (604) g.v. at a sub-station; usually a promoted fitter of long service; sometimes also carries out experiments on switchboards under instructions from resident or chief engineer (600) g.v.

district foreman; (i) (gas) controls all workmen dealing with supply of gas from mains to the consumers' premises; is responsible for completion of work in accordance with orders received from office, visits work from time to time to ensure that it is being done satisfactorily; decides if overtime is required and certifies overtime worked, if any; supervises and controls work of pressure men (600) g.v.; in case of leakage conducts tests with special indicator inserted into holes made in ground; **(ii)** (water) responsible to district superintendent or assistant engineer (600) g.v. for maintenance and regulation of supply of water in a district and acts generally as assistant to district superintendent; supervises men employed on pumps and filtration beds and, in particular, superintendent turncocks, turncocks and assistant turncocks (608) g.v.; **(iii)** (electricity) supervises workmen employed in a district; usually in charge of navvies engaged on excavating work, directs their work and is responsible that excavations are properly protected by barriers and lights as a safeguard against accidents.

district inspector, district superintendent (gas works); ORDINANCE prospectus consumers for orders; measures up and gives estimate of cost of installation of new fittings; reports particulars of orders obtained to office, whence are issued necessary orders to district foreman g.v.; visits consumer and examines new work to ensure that it gives satisfaction; is usually a technical man.

district superintendent, superintendent of district (waterworks); supervises work of district foreman and reports to district engineer (600) g.v. on distribution and supply of water in his area; visits stations from time to time for general inspection purposes.

engine room foreman (electricity supply); in charge of engine room staff; sees that they attend regularly and punctually and that they perform their duties properly, arranges turns of duty; superintends any minor repairs or tests of bow plant; usually responsible to resident engineer (600) g.v.; sometimes also performs duties of boiler-house foreman g.v.

filter bed foreman, filter ganger (waterworks); in charge of filter bed cleaners (609) g.v. and of sand washers (606) g.v. engaged in cleaning out filter beds and in washing sand removed therefrom; sees that workers attend punctually and regularly and work diligently, and that work is properly done; arranges duties; sanctions overtime, if necessary; responsible to resident engineer (600) g.v. or to district foreman g.v.

first coal store man; (London term) see fittings inspector.

fittings inspector, stove fittings inspector; (London term); first coal store man (London), gas fitter inspector; inspects gas fittings and appliances

supplied by gas companies, on receipt of complaint from consumer, and reports as to removal or repair. usually arranges stove or other fitting and effects minor repairs on the spot, is usually a district fitter (235) g.v. fittings fitter, inspector of fittings (waterworks); inspects cisterns, taps, and other fittings on consumer's premises to see that they are in good working order and in some districts to see that they are of standard or approved type or quality; if fittings are faulty either does minor repairs or serves notice on consumer to have fittings repaired or to have proper fittings installed; in some districts is also a waste inspector g.v.

flushing inspector (waterworks); supervises on behalf of water company, flushing operations undertaken by corporation workers, fixes meter to hydrant, takes readings and makes record of quantity of water used; often deals by turncock (508) g.v.

gasometer examiner, gas holder examiner; inspects gas holders, sees to greasing of rollers, guide wheels, etc., adjusts gas necessary and reports on their condition.

gas stove inspector, see fittings inspector.

griller inspector (gas works); a fittings inspector g.v. who specialises in dealing with grilling appliances.

inspector (electricity supply, waterworks, gas works); general term for any person employed as inspector of works, mains, plants, fittings, etc., or of any section or district; "inspection" may imply varying degrees of skill, technical knowledge or responsibility, may involve anything from superficial examination by sight only to application of various tests and may be of a routine nature or designed to detect some fault or irregularity; may or may not have one or more assistants or subordinates; usually further designated according to article inspected or nature of inspection, e.g. inspector of gas works, fittings inspector, waste inspector g.v.

inspector of lampfitters, see lighting superintendent.

inspector of new plumbing work (waterworks); inspects new plumbing work during construction and on completion; duties as for inspector of fittings g.v.

installation inspector, installation superintendent (electricity supply); *erection inspector*; arranges position of current supplies; supervises fixing of hired meters; inspects and tests new or old installations on consumer's premises for supply of light or power, and makes final connection; attends to enquiries and complaints as to meter readings, pressure, and to location of "earth" fault; and takes particulars in connection with change of occupancy; cf. consumer's installation engineer (500).

lamp inspector (gas works); inspects street gas lamps for damages to glass, mantles, by-passes, etc., and reports defects; duties sometimes performed by lampfitter (560) g.v.

lighting superintendent, street lighting inspector (gas works); inspector of lampfitters; controls street lamp lighting staff; is responsible for maintenance of lamps; and arranges for lighting and extinguishing lamps at times fixed by local authority, while different parts of area to satisfy himself lighting arrangements (including self-lighting automatic) are adequate and satisfactory and in accordance with requirements of local authority; cf. public lighting foreman (electricity supply).

*main pipe foreman, main layer foreman (gas works); supervises and directs work of main layers (575) g.v.; sees that mains are laid in accordance with plans; decides whether overtime is necessary and issues orders accordingly; prepares notices for dispatch to local authority indicating position

and area of pavement or roadway disturbed in laying of gas mains; orders materials and implements from store; mains foreman (electricity supply); foreman of street works, mains inspector, superintends laying, painting, and maintenance of all kinds of services from main or station to consumer's premises; directs and supervises work of main layers, examiners, etc.; responsible to mains engineer (580) g.v. for work according to plan.

mains inspector (electricity supply); (i) see mains foreman; (ii) see road inspector.

manhole girth attendant, see box inspector.

manila maintenance foreman (gas works); is in charge of manila maintenance fitters (596) g.v., and arranges areas to be assigned to each.

meter inspector (electricity supply); inspects meters at consumer's premises with standard meter or lamp to ensure that meter is registering correctly; affixes standard meter or lamp to service meter and counts revolutions made by revolving disc in a given time and checks against known number of revolutions per minute for a given volume; reports to meter department, meter superintendent (580) g.v. or consumer's engineer (500) g.v. cases in which meter is defective or improperly fixed.

meter inspector (waterworks); inspects meters of street and private mains; attends to automatic volume-registering apparatus, renews ink supply and chart paper on drum of apparatus.

motor cleaner, motor inspector (electricity supply); examines motors and starting apparatus let out on hire to motorists or other power users; inspects motors in operation to see that they are running smoothly; renews brushes if necessary and cleans commutators; carries out minor repairs, reports faulty motors to consumer's engineer (500) g.v.

night inspector (waterworks); tests water mains; inspects water pipes for leakage by night (when listening tests are easier, owing to stillness) using a water meter or a stethoscope; duties similar to those of waste inspector g.v. except that no notice to house visitations made at all.

oil gas foreman, oil gas ganger (gas works); superintends and directs the work of a shift of oil gas makers (568) g.v.; inspects plant; maintains correct calorific quality of gas by reading calorimeters and instructing shiftmen to adjust plant accordingly; supervises starting up or closing down of plant or part of plant; keeps time sheets.

overhead line inspector, overhead power inspector (electricity supply); patrols overhead high-tension cables at regular intervals examining insulators, looking for sag or broken or damaged wires, particularly on lines along which there is any complaint, or, after a storm, etc.; does all minor repairs and reports all other defects; also instructs gang as to suitable repair.

paving and extension inspector (waterworks); superintends re-laying of trenches which have been opened for laying of new mains or extensions, and replacement or renewal of paving; in London duties performed by district foreman g.v.

public lighting foreman (electricity supply); responsible to street lighting engineer (581) g.v. for installation and maintenance of street lighting; supervises work of public lighting attendants (508) g.v.; sees that subordinates attend regularly and punctually and do work efficiently; arranges duties and provides substitute for one who is absent.

pumping station foreman, foreman of pumping station (waterworks); in charge of pumping station; is responsible for maintenance of pumping plant, and supervises work of engine

drivers (580), stokers (551), engine cleaners (580), coal wheelers (580), etc. g.v. employed on plant keeps engine pumping plant ready for any emergency.

purifier foreman (gas works); decides when iron oxide in purifier box needs re-vivifying; orders purifier man (599) g.v. to empty box and to spread oxide with shovels, to expose it to air; which chemist considers that re-vivification is complete, superintends purifier man in re-filling purifier box with oxide thus re-vivified, directs purifier man generally, and sees to their punctual and regular attendance; watches pressure gauges, and regulates valve to alter station of burner; also directs and supervises work of scrubber man (598) g.v.

reservoir inspector, inspector of reservoirs (waterworks); water inspector; inspects reservoirs to see that they are clean and in good repair, and reports defects.

retort house foreman, retort house ganger (gas works); stove foreman; in charge of a shift of gas makers (583) g.v. in retort house, directs charging and drawing of retorts, and cleaning of assenon pipes, etc.; responsible to engineer in charge for quality of gas produced and for condition of retorts, furnaces, flues, assenon pipes and hydraulic mains, according to report of gas tester (595) g.v. on temperature and gas analysis, regulates admission of secondary air to retort bench by opening of sliding small doors, times period of carbonising.

river foreman (waterworks); in charge of workmen engaged on supply-river, patrols banks over a given stretch; reports any damage to river banks, sluices, etc., or presence of run of timber or any other objects, e.g. animal carcasses, likely to cause pollution; also notes height of water measured on depth gauges; consults with corresponding officers of conservancy boards.

road inspector (electricity supply); main inspector; inspects openings in ground, made by another authority for construction or repair of gas or water mains, etc., to see that electric mains are not damaged; reports to mains engineer (500) g.v.; also reports any faulty box covers or grates that he may notice.

sanitary inspector (waterworks); inspects sources of water supply to prevent pollution; an infrequent grade; duties similar to those of river foreman g.v.

service inspector, see installation inspector (electricity supply).

stages foreman (gas works), see retort house foreman.

street works, foreman of (electricity supply), see mains foreman.

sub-station inspector (electricity supply), see distributing station inspector.

superintendent of shipping supplies (Liverpool); superintendent, in co-operation with port authority, arranges for supply of water to be carried on ships; in London, duties performed by district superintendent g.v.

superintendent of turncocks (waterworks); instructs turncocks and assistant turncocks (595) g.v. to increase or reduce supply of water when new premises have been connected or when a works has been closed, etc.; gives directions to turncocks to cut off water supply when a serious leakage is reported; regulates water pressure when water is wanted at high pressure by fire brigade; directs turncocks generally, arranging turns of duty, replacing absentees, etc.; in London, duties normally done by district foreman g.v.

waste foreman (waterworks); in control of a number of waste inspectors g.v.; sees that they attend regularly and punctually and perform their duties efficiently; responsible to waste superintendent g.v.

waste inspector, waste meter inspector, waste water inspector (waterworks); is responsible, under direction of waste foreman, etc., for detection of waste by consumers, of leakages in mains, and waste of water generally, by various devices; sometimes allows because waste meter to mains at installation at street and detects waste by abnormal readings; if leakage is suspected in area tested, makes house to house visitation and examines by sight only taps, fittings and cisterns on consumer's premises; if any leakage is found, either executes minor repairs (e.g., repairs washer on tap) or prepares and serves on consumer a notice to have leakage prevented within specified time, revokes consumer's premises in due course to see if repairs have been executed; sometimes tests water pipes in course of suspected leakage by placing stethoscope on pipe and listening to flow of water therein; cf. night inspector.

waste superintendent, superintendent of waste water inspectors (waterworks); responsible for efficient working of waste department; issues orders to waste foreman, g. and through them to waste inspectors; allocates duties; usually a promoted foreman and not a technical waterworks engineer.

water gas foreman, water gas ganger, in charge of a gang or shift of water gas makers (1963) g.w., and is responsible for punctual attendance and efficient working; directs and supervises operations; usually a promoted water gas maker, who often himself works with gang; water inspector (waterworks), see reservoir inspector.

693.—GAS STOKERS.

carboniser, carbonising man, see charger.

charger, retort charger; carboniser, carbonising man; (i) general terms for men charging retorts and furnaces either by hand or machine; (ii) in small works where charging machines are not installed, is a front man g.w. or a scoop driver g.w. who fills retorts with small coal by hand with a scoop.

charging machine driver; retort charge driver; a retort charger g.w. who periodically charges retorts with crushed coal by moving levers of a retort charging machine.

discharger (gas works), see retort drawer.

freeman (generators); attends to fires of generators that heat retorts.

front man; a retort charger g.w. who, with assistance of one other front man lifts scoop of coal up to mouth of retort with an iron bar (called a bridle); see also scoop driver; this operation is now being superseded, except in small works, by mechanical means of retort charging.

gas house man, gas maker (1963) g.w., gas maker; general term for any man working in gas house.

gas maker (coal gas), gas maker; (i) in very small works does whole operation of gas making, which includes operations of charging and discharging retorts, supervising ascension pipes regulating supply of "secondary" air to enable producer gas to burn, opening and shutting retort doors, and possibly coke quenching, etc.; (ii) in gas house man.

machine driver (gas works), machine man; in charge of any type of machine used for charging and/or discharging retorts at gas works; sets machinery in motion by moving a lever; usually also oils and cleans machinery as required.

retort charge driver, see charging machine driver.

retort drawer (gas works); discharger; forces coke out of retorts with mechanical ram (compressed air, hydraulic, or electrical); controls machine by levers; usually done by machine driver g.w. employed alternately to charging and in drawing.

retort man (gas works); general term for any man working in retort house doing work of retort charger or discharger, angler (1939), lad cleaner (1909), opener and closer (1909), hydraulic main attendant (1909), etc.

scoop driver; a retort charger g.w. who co-operates with "front men" g.w. in lifting scoop of coal up to mouth of retort; balances and guides scoop when lifted, pushes it into retort, empties it by turning it over, and removes it for fresh charge; operation now being superseded, except in small works, by mechanical means of retort charging.

stoker, gas stoker; one of a gang of men stationed at back of retorts and working in conjunction with machine driver g.w.; opens retort doors and doors of furnace at back of retorts and pushes hopper into position so that, as coke emerges from retort, it falls into hopper and thence into furnace; pokes coke with iron rod to quieten its passage into furnace; shuts retort doors when charging and drawing process is complete; shuts furnace door when furnace is stoked, allowing rest of coke to fall into conveyor or into wheel barrows.

stopper man (gas works); a gas stoker g.w. working in retort house where projector chargers are used, who holds a stopper against open end of retort, furthest from machine, to prevent coal projected by machine from falling out at back of retort.

topman (vertical retorts); (i) continuous process, controls by hand lower rate of flow of crushed coal from hoppers above vertical retorts; (ii) discontinuous process, opens door at top of vertical retort, fills retort with coal from hopper by moving a lever, and closes door.

698.—OTHER SKILLED WORKERS.

ammoniacal liquor extractor; draws off, by opening valves, ammoniacal liquor from time to time from scrubbing plant; runs in fresh water; may also draw off liquor from condenser; usually done by scrubber man g.w.

tare lamp assistant, arc lamp cleaner, arc lamp trimmer; periodically removes carbons, overhauls, cleans, trims, and renews globes of arc lamps; patrols circuits at switching on time and attends to faulty lamps, including other than arc lamps.

thruer fitter (gas works); lighting fitter; fits assemblies parts and burners for lighting purposes in houses, street lamps, etc.; usually done by gas fitter (1935) g.w.

bettyer (gas works); slang term for workman doing same work as another on opposite shift.

condenser attendant (gas works); watches pressure gauges on gas condenser plant; opens and shuts valves to ensure proper functioning.

filter bed attendant, filter bed valuer (waterworks); watches level of water in filter bed and opens and closes valves of valves, as required, to regulate supply of water to filter bed; if water is low, reports to filter bed foreman (1902) g.w. in case bed should need cleaning; if water is high, operates valves in consultation with pumping engineer (1909) g.w.; reports faulty valves to foreman or fitter (1902) g.w. on maintenance staff.

gas maker (oil gas and water gas), see chapman (oil gas); of water gas maker (1903).

gas tester (gas works); recorder attendant, tester (gas works); removes dried recorder chains or chains, showing water evaporated, steam pressure, water temperature, etc., from plant and sends to engineer; tests producer gas as it leaves producers, tests waste gases as they leave flues from retort house, and

reads temperature of retorts on pyrometer to ensure that producer gas is heating retorts correctly; draws sample of producer gas from main and analyses roughly a fixed volume of it, dissolving carbon dioxide in potash solution, and carbon monoxide (most important constituent) in special caustic soda solution; in similar way analyses sample of waste gases testing for oxygen (by dissolving in it pyrogallol) and carbon dioxide (by dissolving it in potash solution); reports results of tests to foreman who regulates supply of air to producers (primary) and to retort bench (secondary) air.

gauge keeper (waterworks); has charge of, and takes readings from, pressure and depth gauges.

governor house attendant (gas works); attends to proper weighting of station governors which control supply and pressure of gas to each district.

lighting fitter (gas works), see burner fitter.

mantis maintenance fitter, district maintenance man (gas works); (i) replaces broken mantles in street lamps and cleans fittings to which mantle is attached; (ii) calls periodically (or when requested) to inspect gas mantles on private premises, and replaces damaged mantles.

oil gas maker, oil gas man, oil gas operator, see stage man (oil gas).

pipe tester (waterworks); a fitter who, by means of specially constructed apparatus, subjects pipes in mains to hydraulic pressure much in excess of that to which they are normally subjected; works under strict instructions of district superintendent (1909) or district foreman (1902) g.w.

pressure man (gas works); attends to pressure recorders which are fitted at certain points to gas mains and are enclosed in iron pit; opens grate of pit to gain access to recording clock; removes squared paper from dial and replaces with new sheet; winds up clock, cleans pit and cleans grate.

public lighting attendant (electricity supply); street light attendant, street light cleaner; patrols circuits at switching on time and gives attention to faulty lamps other than arc lamps, for which see arc lamp assistant; reports to street lighting engineer (1901) through foreman (1902) g.w.

purifier attendant (gas works); controls rate and direction of flow of gas into, and out of, purifying sheds, by means of valves; makes tests at various points, e.g., with lead acetate paper (for presence of hydrogen sulphide); supervises work of purifier man (1909) g.w.

recorder attendant (electricity supply); makes periodic record of readings of instruments on switchboards from which readings are calculated output, load, etc.; sometimes done by switchboard attendant (1904) g.w.; see also stage man.

reservoir keeper, reservoir bailiff (waterworks); has charge of reservoir and grounds; keeps grounds clean and tidy; excludes trespassers; usually living on premises.

scrubber man, scrubbing man, scrubber bed attendant (gas works); watches pressure gauge of scrubbers i.e., towers of broken coke over which water trickles or rotary washers used to remove last traces of ammoniacal, benzol and naphthalene from gas; opens and closes valves and taps as directed, to draw off liquor and admit fresh water; sometimes also cleans feed and all other pipes connected with scrubbers, with an iron rod or similar last traces of ammoniacal, benzol and naphthalene of purifier attendant and tower man (1909) g.w.; makes repeated tests at different points of condensing and

purifying plant by inserting measuring rod to ascertain depth of tar accumulation, or lead acetate paper to detect presence of hydrogen sulphide; may set pumps in action as required, etc.

sluice man (waterworks); see waterman.

sluice valve repairer (waterworks); repairs sluice valves.

springs gauger (waterworks); gauges flow of water in supply springs by reading and noting depth of supply springs on marked measuring poles or boards erected in them; reports to appropriate gauge station.

stageman (oil gas); oil worker, oil gas operator, oil gas man; works on sloping over and around oil gas plant; controls by opening and closing valves flow of steam to generator, of oil and gas products from generator to carburizer, and of carburized water gas into superheater; controls outflow of carburized water gas (or oil gas) from plant.

street light attendant, street light cleaner; see public lighting attendants.

syphon attendant, syphon man, syphon pump, district syphon pump (gas works); pumps out condensed liquor from sections of gas main into which liquor drains from pipe owing to suitable slight inclination of mains; uncovers manhole, sets up small hand pump, opens valve connecting pump with main and pumps out liquor; takes round pump on cart or trolley.

tester (gas works); see gas tester.

turncock (gas works); turns off gas supply from main to houses, etc., when unoccupied, or for other reasons; turns supply on again when required; (see London term).

turncock (waterworks); controls supply of water in street mains; turns off water supply in case of leakage; visits consumer's premises, on request, to turn off supply; in some districts is present at flushing operations to record length of time operations are in progress and so to calculate charges due; sometimes also accompanies fire brigade to regulate water supply at high pressure; sometimes also accompanies waste inspector (692) g.v. to turn water supply off and on.

turncock's assistant, assistant turncock (waterworks); accompanies turncock g.v.; usually carries tools; deputises for turncock if and when necessary; usually a youth under training.

valve man (gas works); controls valves leading from gas main (containing purified coal gas) to gas holders; also controls, by means of valves, outlets from gas holders to distribution mains; reads and records temperature and pressure, and make of gas, as shown by station meters, and quantity of gas sent out from gas holders, usually also in charge of "boosting" plant pumps, when these are used for maintaining adequate pressure in gas mains over a large area.

valveman, valve valve man (waterworks); see waterman.

washer, washer attendant, washer man (gas works); keeps mechanical washers clean by scraping out tar, etc., deposited by gas in passing through them.

waterman, (waterworks); sluice man, valveman, water valve man; controls sluices or valves by which water is let into and out of reservoirs.

works keeper (waterworks); has charge of, and keeps clean, waterworks premises, e.g., pumping stations and grounds, residing on premises; often same as gate keeper (692) g.v.; may be reservoir keeper g.v.

ason pipes leading from retort up to hydraulic main along which gas passes, by scraping away condensed coal tar deposited there, with long rod with circular scraper or auger.

ash plant attendant, ash hopper, ash hopper man; controls by means of levers automatic hoppers, conveyor plant which conveys coal, or other fuel, from stack to furnace hoppers, and removes ashes from furnace and conveys them to ash tip; also and generally plant and sees that it runs smoothly.

augurer, see ascension pipe man.

barrow man (gas works); wheels coal, coke, breeze and other material about works, e.g., wheels iron ore from pumps to revivifying house, and wheels it back to purifiers when revivified.

bogey man (gas works); see coke man.

bottom man (vertical retorts) (gas works); controls by means of levers discharging apparatus at bottom of vertical retort, and so regulates speed of coke leaving retort.

breaker man, coal breaker, coal breaker attendant (gas works); coal crusher driver, coal gas man; controls by means of levers crushing machine for crushing coal before carbonisation in retorts; if machine is driven by engine, starts and stops engine by levers and oils it as required; in some gas works, also works in same way bucket elevator, which picks up crushed coal and tips it into hoppers from which charging machine is filled; responsible for proper distribution of coal to hoppers; if, coal elevator attendant; may also assist in tipping of trucks or wagons carrying coal to crushing plant.

breeze forker, breeze loader, see coke filler.

breeze picker, see coke picker.

breeze plant attendant, see breeze washer.

breeze washer (gas works); breeze plant attendant; controls, by means of levers, breeze washing plant, which deals with "pan" breeze (breeze recovered from gas producer furnaces), oils plant and watches it to ensure that it runs properly.

braker, busser-in, see furnace filler.

chain man (waterworks); carries measuring chain, theodolite and level; and generally assists and deputises for chainman (690) g.v. in taking levels, etc., for new works or for reconstruction and repair of existing works.

checker, coal (electricity, gas works); checks weight of coal received on weighbridges, records weight, and makes up returns of coal received and sent to furnaces or to stock.

cinder holstman (gas works); breeze elevator man; controls, by means of levers, power-driven elevator which lifts breeze to screens or to loading hoppers; oils and cleans bearings and generally watches machinery for proper working.

cleaner (electricity supply), boiler house cleaner, engine-room cleaner, engine cleaner, sub-station cleaner; cleans and sweeps up floors; cleans plant, blows dust out of electrical plant with compressed air, under supervision; cleans mess room, offices, etc.

cleaner (gas works); cleans mechanical plant with oily waste in so far as this is not done by drivers or attendants of each machine or apparatus.

cleaner, filter-bed cleaner (waterworks); filter-bed labourer; cleans filter bed, under direction of filter bed foreman (692) g.v.; either shovels sand (or other filtering material) which has become slimy or dirty into barrows, wheels it away, and tips it on a heap, ready to be washed; brings it back when it has been washed, and spreads it on filter bed (or spreads fresh filtering material, in place of that removed), or operates by means of levers a mechanical cleaner (a small

electric motor constructed to pick up, wash, and replace filtering material); guides motor by steering gear, oils and cleans it.

cleaner, flue (gas works); removes dust with rake as it accumulates in flues conveying heating gas round retort settings.

cleaner, lamp (gas works); cleans street lamps at regular intervals; may also clean fittings and replace broken lanterns; see mantle maintenance fitter; in small areas sometimes done by lampfighter (688) g.v. during daylight hours.

cleaner, leading (electricity supply); a leading hand among a number of cleaners g.v. whom he directs while he himself works with them; responsible to engine room foreman (692) g.v.

cleaner, line (gas works); removes coal or coke spilt from wagons, etc., from railway lines, crossings, and points.

cleaner, retort (gas works); see scourer.

cleaner, stove (gas works); cleans stove, sent in for repair; may also clean cookers in private houses on contract, etc.

clinker man (gas works), water gas clinkerer; removes clinker and ashes from producer gas furnace with long iron bar.

clinker picker, see coke picker.

coal borderer (gas works); builds up containing wall of coal stock with large shovel of coal; whitewashes these bunks, as precaution against theft.

coal crusher driver, coal gear man (gas works); see breaker man.

coal handler, coal labourer (electricity supply); coal wheeler; unloads and stacks coal with a hand shovel and barrow.

coal man (gas works); as for coal handler.

coke baker (gas works); coke porter; carries sacks of coke on his back from coke fillers to carts or vans for distribution.

coke breaker attendant, as for breaker man (coals).

coke drawer, see coke raker.

coke filler, coke forker (gas works); breeze forker, breeze loader; (i) fills small wagons with coke after it has been quenched by coke quencher g.v., using a coke fork; (ii) releases gun, showing end of coke, and shovels coke from coke tip into sack with coke fork; or may hold sack open while other worker shovels coke in.

coke handling plant attendant (gas works); a conveyor attendant g.v. who, at signal from coke hold labourer g.v., moves lever, setting in motion a crane of conveyor plant which conveys full coke wagon automatically to coke tip; similarly at signal from coke tipper, sets conveyor plant in motion to bring back empty wagon to coke hold to be refilled; may also operate cocks of water spray, which quenches coke as it is conveyed.

coke labourer (gas works); responsible for cleanliness and order of coke storage ground, using coke fork and broom; does any labouring jobs in or around storage ground.

coke hold labourer, coke hole labourer (gas works); coke pit men, pitman (gas works); does unskilled labouring work in coke hold or hole, i.e., floor below retort house into which coke falls on being raked out from retorts; clears drains and gangways with coke fork; assists coke quencher g.v. generally.

coke loader; loads coke into barges, railway wagons, carts, etc., for conveyance in bulk; forks coke into sacks and carries sacks to wagons, etc. or forks direct in wagons.

699—OTHER WORKERS.

ascension pipe man (gas works); augurer, pipe cleaner, pipe opener, pipe truer; keeps clean sides of ascen-

coke man (oil, gas or water gas works); *boiler man*: fills coke boggies with coke *fork* from stack and pushes them on to lift for transmission to charging floor; may also discharge coke on charging floor.

coke mounds man (gas works), see *stacker, coke*.

coke picker; breeze picker, cinker picker (in small works) picks out coke from ashes, which have been raked out from floor of producer, gas furnace, see further under *charging head* sub. (in large works) tips ash into hopper of machine which automatically separates various sizes of coke and breeze from ashes.

coke pit man (gas works), see *coke hold labourer*.

coke porter (gas works), see *coke hucker*.

coke quencher, coke quencher attendant (gas works); *coke skip shoveller, coke skip waterman*: connects metal skip of coke, ejected from retort, to chain attached to telpower motor; quenches coke by dashing a bucket of water, or directing hose, on it; quenches any coke that does not fall into skip, and shovels it into skip in small works may also do work of fire raker *q.v.*

coke raker (gas works); *coke drawer*, rakes coke out of retort, after carbonisation, with a long iron fire-rake.

cocker-in (gas works), see *furnace filler*.

coke runner (gas works); follows trucks of coke which are hauled by wire rope up incline to gantry, and tips coke into coke heap below.

coke skip attendant (gas works), see *coke quencher attendant*.

coke tipper, coke tipman (gas works); tips contents of small wagons of coke coming from retort house on to coke tips, or into ships, barges, or railway trucks; when wagons are controlled from central engine room of haulage system, *signaller, engine room attendant* he electric bell or otherwise, that wagons are empty and ready for return to retort house.

conduit warden (waterworks); *ferman*: has general oversight over conduits; patrols them to watch for and report any damage to walls or source of pollution; regulates flow and height of water in conduit by opening or closing sluices.

conveyor attendant, conveyor man, conveyor operator (gas works or electricity supply); operates by means of levers, belt or bucket conveyor used for conveying coal, coke, or ashes from one part of works to another; oils, greases and cleans bearings of plant and sees that it works smoothly; usually keeps record of weight of material conveyed; in small works also runs coal, etc. heap at intervals to enable bucket to pick it up, or shovels material on to head of conveyor; often further designated, *e.g.*, *coke conveyor attendant, coal conveyor man*.

cooling tower attendant (electricity supply); *reservoir attendant, water attendant*: regulates water supply to cooling towers in power house, (by means of which steam is condensed), either by means of pumps (which he oils, greases and cleans) or by turning valves or taps.

door cleaner, door opener (gas works); *lid cleaner, lid opener, opener and closer*: opens with long iron rod doors of retorts when carbonising process is finished, ready for discharging coke; applies torch to quite small amount of gas remaining in retort; pushes rod up ascension pipes to dislodge any tar or obstruction; chips away tar on inside of lid and face of mouthpiece; usually also shuts doors, see *door shutter*, works in conjunction with machine driver *q.v.*

door shutter (gas works); *lid backer, lid opener, lid shifter*: shuts with long iron rod metal doors of retort after they have been charged; sometimes done by door cleaner *q.v.*

electric light attendant (electricity supply); *fault attendant, fault hand, fault man, fuse hand*: one of "stand by" staff, to go out at short notice to consumers' premises to renew fuses, and make good any faults; responsible to installation inspector (692) *q.v.* and works under his direction.

elevator attendant, coal (gas works and electricity supply); *hopper filler* (gas works); a conveyor attendant *q.v.* who attends to bucket elevator used for raising coal, *e.g.*, from weighing room to top of crushing machine; *cf.* breaker man.

elevator man, breeze (gas works), see *clinker hoistman*.

hopper filler (gas works); *hopper filler*: starts and stops by means of lever elevator which carries coke up from coke tip to hopper over producer gas furnaces; oils, greases and cleans bearings.

fault attendant, fault hand, fault man (electricity supply), see *electric light attendant*.

fender boy (gas works); whitewashes fenders in front of retort lids to prevent tar from adhering.

filter-bed labourer, filter labourer (waterworks); either a groundman *q.v.* or a filter-bed cleaner *q.v.*

fire raker (gas works); tends and cleans fires of gas producers, raking out ashes and clinker; in small works also does work of coke quencher *q.v.*

furnace filler (gas works); *bunker, burner, cocker-in, gas producer attendant*: feeds and attends to gas producer furnace, adding coke as required, either by hand with operating lever or more usually by operating lever of coke charging machine.

furnace poker-in (gas works); *poker furnace* in which producer gas is made, with iron bar, through holes in side, to stimulate combustion; usually also a furnace filler *q.v.*

fuse hand (electric supply), see *electric light attendant*.

gas house labourer (gas works); general term for any man doing unskilled work in retort house.

gas labourer (gas works); *gas works labourer*: general term for unskilled labourers employed in manufacture or purification of coal-gas.

gas lighter (gas works); *lighter, extinguisher*, and keeps gas lamps clean in a gas works plant; *cf.* *lightkeeper* (399).

gas producer attendant (gas works), see *furnace filler*.

greaser; oiler, oiler and greaser (electricity, water, or gas supply); oils and greases machinery, particularly any machines, gearing, etc., which have no engine man in constant attendance, either by applying oil or grease with a piece of waste, or, in case of automatic oiling systems, by filling oil cups from can; often also cleans machinery; *cf.* *cleaner* sometimes specifically designated, *e.g.*, *retort house greaser*.

groundman (waterworks); removes silt from turbid water; in winter, breaks ice when water in filter-beds is frozen; often done by filter-bed cleaner *q.v.*

handyman (gas works and waterworks); semi-skilled man engaged in maintenance and repair of waterworks plant and machinery, or in keeping charging machines, in retort house of gas works, in running order.

hopper filler (gas works), see *elevator attendant, coal or elevator man, coke*.

hydraulic main attendant, hydraulic main man (gas works); *feyman*, works on top of retort benches and keeps hydraulic mains clean by screwing caps or plates at heads of bridge pipes and cleaning with iron rod any pipes choked with tar; is responsible to retort house foreman (692) *q.v.* for keeping ends of ascension pipes sealed, *i.e.*, under level of water in hydraulic main; inspects

gauges of a governor showing vacuum on top of water seal and regulates depths of water seal by admitting water or hanging weights on governor; cleans governor, and sweeps gangways, bed over retort, top of mains, etc.

index reader (gas works), see *meter reader* (gas works).

lamp boy (gas works); cleans, fills with oil and generally attends to lamps on railway points and crossings in works.

bestman (waterworks), see *conduit warden*.

laverman, coke (gas works); *as for conveyor attendant*.

lid backer, lid closer, lid shutter (gas works), see *door shutter*.

lid cleaner, lid opener (gas works), see *door cleaner*.

lid man (gas works); a door opener *q.v.* or a door shutter *q.v.*

lime man (water gas); prepares lime, by breaking it up with a shovel, to be used for purification of water gas.

lineman (waterworks); is responsible for maintenance of aqueducts and pipe lines; sees that ground is kept clean and that gates and fences are in order; *cf.* *walkmen* (waterworks).

meter man, meter reader (electricity supply); takes readings of meters on consumers' premises, for gas is calculating charge for supply of current, reports suspected faulty meters, or damage to meters, etc., to meter inspector (692) *q.v.*; often employed at times in clerical way, in office, in intervals between quarterly readings.

meter reader (gas works); *meter reader*; (1) reads and notes dial of station meter at gas works at fixed intervals, and also notes temperature and pressure of atmosphere at time of reading; (2) reads gas meters at consumers' premises, notes quantity consumed in his own record book and on consumer's card; collects coin from slot meters and pays rebate (if any) to consumer.

meter reader, meter state taker (waterworks); *as for meter man* (electricity supply).

notice server (waterworks); personally serves notices of cutting off supply to defaulting customers.

oddman (gas works), *as for gas labourer*.

oiler (gas works), *oiler and greaser* (electricity supply), see *greaser*.

opener and closer (gas works), see *door cleaner*.

pan cleaner, panner-out (gas works); removes ashes and clinker from water pans after retort furnaces by raking them out from pan or by shovelling.

pipe cleaner, pipe opener, pipe triser (gas works), see *ascension pipe man*.

pipe jumper (gas works); an ascension pipe man *q.v.* who works on top of retort beds, untwisting linked connections, and making connections thereto with a long bar.

pitman (gas works), see *coke hold labourer*.

pluggier-up (gas works); plugs furnace feeding mouth with coke breeze to prevent gas from escaping, in substitution for lid or door.

pot boy (gas works); performs odd jobs in connection with laying and jointing of district mains; keeps hut in which jointing materials, *e.g.*, lead, implements, etc., are stored, in clean and tidy condition; notes quantities of materials used, and reports to foreman main layer (504) *q.v.* when stocks are low; cleans spades, picks and other tools, and reports any damage or breakages to foreman; adds fuel to fire on which lead melting pots are placed and informs main layer when molten lead is ready for use.

purifier leveller (gas works); *spreader*; a purifier man *q.v.* who levels or spreads run oxide with a long rake, as it is tipped into purifier chambers; tests depth of oxide against mark on rake to ascertain when correct quantity has been tipped in.

purifier man, purifier labourer, purification man (gas works); one of a gang of men who takes hand from gas purifier chambers and opens doors at bottom to let spent run oxide to fall out; removes spent oxide, with shovel and barrow, to shed for exposure to air, turns it over from time to time to assist re-oxidation, and subsequently returns it and tips on to purifier grids for further use; works under supervision of purifier foreman (192) *q.v.*; in small works, works under purifier attendant (193) *q.v.* and may even do his work.

quandah (gas works), *see* coke quandah.

rake driver (gas works); withdraws coke from single-ended retorts with long rake.

reservoir attendant (electricity supply), *see* cooling tower attendant.

reservoir attendant (waterworks); patrols reservoirs and regulates by means of valves the water level and out of reservoirs; where reservoir adjoins pumping station and is supplied therefrom reports state of water supply to engineer in charge of pumps and acts in conjunction with him; removes leaves and other refuse from water with a pole and bucket; in small undertakings, sometimes also acts as groundman *q.v.*

retort house man (gas works); general term for any man employed in retort house of gas works, including retort charger (163), machine driver (165), accession pipe man, hydraulic main attendant *q.v.*

retort labourer (gas works); a general labourer in retort house, sweeps up coal and dust on "stage" of retort house, wheels out clinker and dumps it, and performs any unskilled work in or about retort house.

river gratesman (waterworks), *see* weed gratesman.

rope runner (gas works); (i) attends to and operates rope systems by which small tubs of coal or coke are moved from place to place in gas works; (ii) couples and uncouples wagons on works railway, operates point levers and assists locomotive driver generally.

runner-away (gas works), *runner-off*; pushes wagons of coal on narrow-gauge line, from wharf siding.

sand washer (waterworks); spreads out dirty filtering material, which has been removed from filter beds by filter bed cleaners *q.v.* with a shovel and washes it by squirting water on it from a hose, or by feeding it to machines which clean it automatically.

scourer, retort scourer (gas works); retort cleaner; ships off deposited gas carbon from sides of retorts when it gets too thick, using a long-handled, chisel-pointed tool.

smoke-jack (gas works), *see* stackman.

softening and filter attendant (waterworks); water softening tanks machine, which feeds purified lime to water to be softened as it runs along open channel to filter beds, and supervises mechanical filters through which water passes, after being softened, to remove excess of lime.

spreader (gas works), *see* purifier leveller.

spreader, coal (gas works); spreads coal evenly on stack with shovel or fork, so that stack does not exceed given height.

spreader, coke (gas works); (i) *see* stacker, coke; (ii) a coke quandah *q.v.* who also throws coke to back of retort house with coke fork.

stacker, coal (gas works); carries on back, or moves on trolley, bags or stacks of coal from weighing room to stack.

stacker, coke (gas works); coke rounds man, coke spreader, coke trimmer; shovels coke into stacks in yard when brought from retort house. **stackman** (gas works); smoke-jack; cleans and generally attends to flues of retort house; takes out dust with long iron rod.

stackman (gas works); general term for any man working in retort house on a stage above producer gas furnaces and coke quenching floor; *cf.* stage-man (all gas) (166).

strainer washer (waterworks); removes leaves and other refuse from strainer at mouth of inflow pipe to filter beds; if strainer is very dirty, steps flow of water, removes strainer and scrubs it with a brush before replacing it.

subway man (gas works); examines gas main in brick subway under public roads and reports defects in main and in subway.

tallyman, brass, coal or coke (gas works), *see* weigher.

tank man (gas works), *see* tower man. **tar and liquor plant attendant**, *see* tower man.

topman (not on vertical retorts), *see* hydraulic main attendant; *cf.* top-man (vertical retorts) (193).

tower man, tar tower attendant (gas works); tank man, tar and liquor plant attendant; attends to condenser towers through which gas is passed for cooling purposes, to expedite deposition of tar, which falls into seal pots and thence runs over into settling tanks; ascertains depth of tar accumulation by inserting measuring rod into valve; sets small pump going when necessary to pump tar into tanks; keeps seal pots clean and ensures that pipes to seal pots and from them to settling tanks are free from obstructions.

trimmer, coal trimmer (electricity supply); (i) unloads, stacks, and trims coal by hand; (ii) notes all riddlings and amass stacks generally.

trimmer, ash (electricity supply); rakes out ashes from furnaces on to firing floor (i.e., in front of boiler); in small undertakings, sometimes also acts as ash wheeler *q.v.*

trimmer, coal (gas works); spreads coal evenly with a shovel as it is delivered on stack by conveyor for storage; shifts coal with shovel to facilitate its delivery by gravitation on to belt of conveyor; shovels into barrow coal split from charging machine in retort house and wheels away to stack.

trimmer, coke, *see* stacker, coke (gas works).

trolleyman (gas works), *see* wheeler, coke.

trucker (gas works); operates by means of lever mechanical tipping devices attached to trucks and discharges contents where desired.

valve boy (gas works); stands on top of retort benches to open and close valves admitting gas from retorts into exhausters at a signal from retort house foreman (193).

valve labourer (gas works); oils and greases valves on district mains.

walkman (waterworks); patrol supply-rivers, reservoirs, conduits, aqueducts, etc., to detect leakage or other defects; makes provisional repairs and reports to manager; usually trambler designated, *cf.* aqueduct walkman, conduit walkman, reservoir walkman, or river walkman; *see* also line-man (waterworks); *cf.* pipe ranger (576).

water attendant (electricity supply), *see* cooling tower attendant.

waterman (gas works), *see* coke quenching.

water softener (waterworks), *cf.* for softening and filter attendant.

water softening plant attendant (electricity supply), empties tank by opening valves for large clean plant by hand with brush or mop, and, if necessary, scales or scrapes parts which have become encrusted; opens valves or taps to admit water and allows it to flow freely through tank to flush it; fills tank with water by closing outlet and throws in prescribed quantity of chemical (usually lime).

weed gratesman (waterworks); river gratesman; keeps from grates, in supply-rivers and conduits, free of weeds and rubbish; uses hand or a brush on a long pole.

weighbridgeman (gas works); weighs all coal and coke on weighbridges; records tare, gross and net weights of all trucks; fills up all forms and records required.

weigher (gas works); breeds, coal or coke fallows; weighs and records weights of all coal received or sent from works, of coal sent to retort house, of coke sent out from retort house, of coke used for various purposes at works, of coke sold, of coke produced, used and sold, etc.

wheeler, ash (gas, electricity and water works); shovels ashes, raked out from furnace into barrow or truck and pushes them out of boiler house and tips on to ash tip.

wheeler, brass, *see* wheeler, coke.

wheeler, coal (gas works); fills with hand shovel small tubs of coal, and wheels them from weighing room to crushing machine, or from crushing machine to retort house, or elsewhere from place to place as may be required; tips coal from tubs at end of journey.

wheeler, coal (electricity supply), *see* coal bender.

wheeler, coke (gas works); breeds wheeler, freighter, pushes small wagons or barrows of coke (which are sometimes also filled with hand shovel) from retort house and tips contents on coke tip, or otherwise loads and wheels coke from place to place, as required.

ORDER XXII.—PERSONS EMPLOYED IN TRANSPORT AND COMMUNICATION.

Sub-Order I.—Railway Workers.

700.—RAILWAY—OFFICIALS, STATION MASTERS, YARD MASTERS, PASSENGER AND GOODS AGENTS.

agent, assistant goods; assists goods agent *q.v.* and takes his place when he is absent; sometimes also acts as goods traffic carman *q.v.*

agent, coal depot; a goods agent or a mineral agent *q.v.* who deals with coal traffic only.

agent, depot, *see* agent, goods.

agent, district canvassing; a district inspector *q.v.* who supervises and directs canvassers *q.v.* in a district, and who is responsible to goods agent *q.v.* for efficiency of canvassing arrangements therein.

agent, district goods; *as for* agent, goods, but is in charge of all goods stations or depots in a district.

agent, district passenger; *as for* agent, mineral, but is in charge of all stations or depots, where main traffic is mineral traffic, within a district. **agent, district passenger**; under control of passenger manager or of district passenger manager *q.v.*, circulates a definite railway district by means of advertising bills, etc., approaches churches etc., offering special rates for outings and otherwise increases passenger traffic in his district.

agent, goods; depot agent, goods superintendent, traffic agent; has entire charge of a railway goods station or depot, controlling staff, directing district canvassing agents g.v. and supervising generally work of canvassers, goods foreman (706), checkers (706), officers (706), loaders (706), etc. g.v.

agent, mineral; mineral traffic agent; mineral trains superintendent; as for agent, goods, but duties confined to mineral traffic.

agent, passenger; has charge of clerical staff in booking office, parcels office, left luggage office, lost property office, etc., at a large passenger station.

agent, receiving office; is in charge of a railway company's town receiving office; is responsible for seeing that parcels, etc., received at office, are labelled and prepared for despatch, and sent promptly to station, also for collection of charges thereon.

agent, station; a passenger agent g.v. who represents and guards interests of a railway company at a station of another company to which his own company has only running powers.

agent, traffic, see agent, goods.

canvasser, traffic canvasser; outdoor representative, locomotive traffic solicitor; calls on commercial firms and others offering and explaining traffic facilities and trying to secure their custom; reports to goods agent g.v., if canvassing for goods traffic, or to passenger agent g.v., if canvassing for passenger traffic; sometimes specifically designated, e.g. goods traffic canvasser.

chief foreman; head foreman, superior foreman; is employed in large goods shed or depot; acts under instruction of yard master, goods agent or of goods inspector g.v. according to size of depot; supervises number of working foremen, cf. goods foreman (706), and is responsible for co-ordination and efficiency of carriage arrangements; precise duties vary according to goods handled in depot.

chief of police; police superintendent; is responsible for efficient surveillance of railway company's stations, yards and depots, to prevent pilfering, etc.; directs and supervises police inspectors g.v. and railway police generally; consults with chief legal adviser as to prosecution of offenders.

collector of dues; calls on customers and collects freightage, demurrage and other dues owing to a railway company.

controller, chief; control master; is in supreme charge of control office, controlling drivers (703), guards (702), shunters (704), porters (706) g.v., etc., engaged in working traffic over a specified area; issues instructions, etc., to train controllers g.v.

controller, rolling stock; is in charge of rolling stock of a railway; arranges its distribution, and keeps records of its whereabouts; is responsible for its upkeep and repair.

controller, train controller; train dispatcher; is one of a number of controlling officers who, under direction of chief controller g.v., take charge, in turn, of work in traffic control office and who control engine men (701), guards (703), goods porters (706) g.v., etc., working over a specified area; or who are employed in regulating trains or guards over an area from a point other than a control office.

control master, see controller, chief.

depot master, see yard master.

detective; keeps watch on railway company's property for pilfering, thefts of luggage, etc.; follows movements of suspected persons; works in plain clothes under direction of police inspector g.v.

engine arranger; a running foreman g.v. who allocates engines to their respective services, generally for a week in advance; has schedules of duties posted in engine shed.

examiner, chief special; chief tickets examiner, chief travelling examiner, see inspector, chief tickets (travelling).

examiner, load, see inspector, load, excess luggage weigher, district; a travelling excess inspector, cf. inspector, travelling, who supervises work of excess luggage collectors (706) g.v. at stations in a specified district.

foreman, capstan; directs and supervises capstan men (706) g.v. at large goods depot, is responsible to goods agent g.v. for prompt moving of goods wagons to and from loading platforms in depot.

foreman, cattle; directs and supervises cattlemen (706) or goods porters (706) g.v. at a cattle depot, in loading and unloading of cattle (chiefly) or goods into and out of trucks.

foreman, checker; supervises and directs work of checkers (706) g.v. in goods station or depot.

foreman, grain; has charge of railway grain warehouse; controls and directs work of loaders, checkers (706) g.v. etc.

foreman, loco; locomotive foreman, locomotive yard foreman; running shed foreman, shed foreman; controls staff of locomotive engine shed or yard; arranges and supervises work of engine cleaning and preparation of engines for drivers, despatch of engines at times scheduled, arranging staff rosters, etc.; personally supervises engine shed work.

foreman, meat; is in charge of gang of meat pitchers (706) g.v. at railway meat depot; directs loading and unloading of wagons.

foreman, repair; directs repairs (706) g.v. at a goods depot and is responsible for their work.

foreman, running; employed in large engine sheds with other running foremen, under control of locomotive or running shed foreman g.v. to carry out latter's instructions; employed on shifts in common with lower grade engine shed workers but as distinct from running shed foreman.

foreman, running shed, see foreman, loco.

foreman, searcher; supervises and directs a number of searchers and tracers (706) g.v.

foreman, shed, see foreman, loco.

foreman, shunter; directs shunters (706) g.v. and is responsible for their work.

foreman, stock; a foreman in warehouse wherein railway company stores goods for customers; supervises goods porters (706) g.v. and ensures that arrangements for storing are carried out; checks goods received and is responsible for despatch of goods or delivery into vans in correct quantities, etc., to firms direct or to their clients.

foreman, traffic; general term covering such supervisory officials as yard inspector, station inspector, cattle foreman g.v.; obsolete.

head foreman, see chief foreman.

inspector, advertising; a head office inspector g.v., or, if stationed in one town, a station inspector g.v. who examines advertising spaces on rolling stock and premises of a railway company for purpose of checking duplication and overdone (time expired positions); takes note of vacant spaces; arranges replacement of defaced or soiled advertisements, etc.; deals with all kinds of advertisements, cf. billposting inspector.

inspector, assistant; general term for an official who assists an inspector and replaces him in case of absence; for duties, see inspectors defined under this code number.

inspector, baggage; a station inspector g.v. who supervises transfer of passenger's baggage from train to taxi, or vice versa, at sea-port station.

inspector, ballast; makes periodical examinations of ballast on permanent way in a district; orders where necessary; inspects ballasting operations.

inspector, bill posting; travels a district to see that bills, etc., announcing traffic arrangements, are properly posted, and kept up to date; inspects generally supervises work of bill-posting porters (706) g.v.

inspector, brake; is responsible for periodical inspection of brakes of railway rolling stock in a particular district, reporting for repair where necessary.

inspector, bridge; examines bridges periodically; reports damage or strain; supervises repair operations; inspects and passes work of bridge contractors.

inspector, cab; supervises cab ranks of large passenger stations; sees that regulations are observed, and that drivers have permits to stand on railway premises.

inspector, canvassing; a head office inspector at a district inspector g.v. who examines work of canvassing staff in a defined district; receives returns of orders and general reports from goods agent g.v.

inspector, carriage and wagon; a station inspector is responsible for maintenance efficiency of rolling stock within his district; sees that wagons, etc., are properly constructed and maintained in repair; orders repairs where necessary; on some lines, also does work of carriage cleaning inspector g.v.; graded as district inspector g.v.

inspector, carriage cleaning; a head office inspector or a district inspector g.v. who examines passenger rolling stock after cleaning, and is responsible for efficiency of cleaning arrangements in one or more railway districts; work sometimes done by carriage and wagon inspector g.v.

inspector, cattle; a district inspector g.v. who inspects cattle consigned by rail, and makes reports on their condition, with a view to examining claims which may be made; generally supervises cattle traffic, cf. cattle foreman.

inspector, chain; examines periodically chains used in a definite district; sees that they receive proper care; arranges replacement of worn or defective chains.

inspector, chief goods; a head office inspector g.v. who supervises work of goods inspectors, reporting to goods manager g.v.

inspector, chief ironwork; supervises and is in charge of iron and steel work inspectors g.v.

inspector, chief tickets (travelling); chief special examiner, chief tickets examiner, chief travelling examiner; directs and supervises travelling ticket inspectors g.v.; arranges their terms of duty and is responsible for efficient performance of duties.

inspector, coal; a head office inspector or a district inspector g.v. who examines and reports on arrangements for getting, storing, etc., coal supplies, etc., for a railway system, or district thereof.

inspector, crane; makes periodical examinations of cranes, arranges for repair where necessary; is generally attached to a district.

inspector, demurrage; makes records of delays in clearance of goods stored, or of private rolling stock, for purpose of charging demurrage.

inspector, district; general inspector; an inspector in any department whose duties cover a district, i.e. a defined area less than that of an entire railway or railway division, but covering more than one station, yard, depot, siding, etc.; usually

combines work of two or more specifically designated inspectors, e.g., train inspector, carriage and wagon inspector *q.v.*, according to type of district control.

Inspector, district goods; a district inspector *q.v.* who examines work of all goods stations and depôts in a defined area working under district goods manager *q.v.*

Inspector, district travelling; an inspector *q.v.*, in any department whose duties are confined to one district of a railway.

Inspector, dynamometer car; takes records, e.g. power of draw-bar pull from engine, effect of faulty track, by reading and dynamometer car, attached to engine for purpose of measuring speed, acceleration, power developed, etc.

Inspector, fish; a parcels inspector *q.v.* wholly or mainly engaged in connection with fish traffic; examines fish consignments by rail and again on arrival and records condition so as to be able to report in case of claims for damages against company; generally supervises working of fish traffic.

Inspector, front area; a station inspector *q.v.* who is responsible for regulation of staff working in area in station yard.

Inspector, gas; inspects gas producing plants, filling arrangements, tanks, and everything connected with railway company's gas supply; reports defects necessitating repair.

Inspector, general; (i) see inspector, head office; (ii) see inspector, district.

Inspector, goods depôt; goods station inspector; a yard master *q.v.* responsible for goods agent for supervision of general working of a goods depôt in shed or yard, or both.

Inspector, goods train; a head office inspector or a district inspector *q.v.* who examines goods trains before departure, to see that all is in readiness for journey, when this is not done by lead inspector *q.v.*

Inspector, goods yard; a yard inspector *q.v.* who exercises general supervision over staff and working of a large goods yard.

Inspector, guards; a head office inspector *q.v.* who supervises work of guards (705) *q.v.* in a particular district, e.g. by taking charge of surprise visits; examines guards' journals, inspects equipment, etc.

Inspector, head office; general inspector; an inspector at any department located at head office and exercising his functions over an entire railway or division of railway, as distinguished from district inspector, station inspector *q.v.*

Inspector, hydraulic; examines periodically all hydraulic cranes, lifts, etc., in a particular district, arranging for repairs where necessary.

Inspector, iron and steel work; examines and reports on condition of iron and steel structures belonging to railway.

Inspector, lighting; a head office inspector *q.v.* who examines and reports on lighting arrangements of railway rolling stock or railway premises.

Inspector, load; load examiner; a district inspector or yard inspector *q.v.*, according to how stationed, who inspects loaded trucks or wagons at a railway depôt or goods yard, to see that loading has been properly performed, and that vehicles are fit for journey; uses loading gauge where necessary; sees that shunting and reporing are securely stabled.

Inspector, looking; makes periodical examinations of interlocking signalling and points gear.

Inspector, locomotive; examines locomotive engines in site or more locomotive sheds; notes defects and reports to locomotive superintendent *q.v.*

Inspector, machines; machinery inspector; mechanical inspector, outside machinery inspector; examines mechanical equipment, other than locomotives, such as hoists, cranes, oil buffers, weighing machines, luggage lifts, etc., and arranges for necessary repairs.

Inspector, market; directs goods porters (706), examines (715) *q.v.* or other railway workers working at public market, loading and unloading market produce from or into railway wagons or drays.

Inspector, meat; makes periodical inspections of meat depôts; examines meat on arrival, so as to be able to report in case of claims for damages against company.

Inspector, mechanical; see inspector, machine.

Inspector, meter; examines, periodically, all meters (gas, electricity or water) and arranges for repair or replacement when necessary.

Inspector, mineral; a district inspector or a yard inspector *q.v.* who is responsible for efficient carrying on of mineral traffic in a district or at a particular yard; directs shunters (704) *q.v.* etc., engaged in handling such traffic.

Inspector, new works; inspects and reports on progress of new works under construction by railway company.

Inspector, night; a yard inspector *q.v.* employed on night shift.

Inspector of signalling; a head office inspector or a district inspector *q.v.* who makes periodical examinations of enginesmen, firemen and drivers (701) *q.v.*; tests eyesight, etc.

Inspector, office and booking; periodically visits booking and other offices at railway stations; inspects books and returns and checks tickets in hand.

Inspector of materials; is responsible for inspection of materials supplied to a railway company, and for periodical examination of stocks held, checking quantities, conditions, etc.

Inspector of materials, chief; supervises work of inspectors of materials *q.v.*; receives their reports; makes departmental reports to general superintendent *q.v.*

Inspector, outside machinery; see inspector, machine.

Inspector, painting; arranges for painting of buildings, bridges, signals, etc., when necessary, and is responsible for painting work being done efficiently and at proper time.

Inspector, parcels; supervises staff and working of parcels offices throughout a railway or in district of railway or at a large station.

Inspector, passenger train; examines passenger trains, when made up in yard or sidings, to see that all is in order for proceeding on journey.

Inspector, permanent way; periodically examines and reports to superintendent of works *q.v.*, on a section of permanent way as to condition and need for repair; inspects work being done on section.

Inspector, platform; a station inspector *q.v.* who controls platform staff (for example porters (706) *q.v.* etc.) of a large passenger station; is responsible for smooth working, direction of passengers, clearance of luggage, etc.

Inspector, police; supervises work of a body of railway police.

Inspector, race traffic; a head office inspector *q.v.* specially dealing with traffic to and from race meetings.

Inspector, rail; examines and tests contractors' supplies of rails, passing or rejecting them according to condition.

Inspector, rail motor; makes periodical inspections of rail motor trains, i.e. small trains propelled by self-contained motors, and arranges for repairs or overhaul where necessary.

Inspector, receiving office; makes periodical inspections of railway receiving offices in his district; examines books, accounts, equipment and discusses work generally with clerk in charge.

Inspector, rolling stock; stock inspector; has general control of rolling stock, sees that requests are promptly met, e.g. shobies engines to station yards; examines equipment and is responsible for effective use and supply of rolling stock; reports to superintendent, if at head office, otherwise to district superintendent *q.v.*

Inspector, running department; makes periodical inspections of running sheds and yards of a district; examines general organisation of shed, staffing, etc.; inspects records and discusses work generally with running shed or locomotive foreman *q.v.*

Inspector, sanitary; a head office inspector *q.v.* in civil engineer's department who inspects sanitary arrangements on railway property, i.e. lavatories, urinals, drains, etc., reporting for repairs where necessary.

Inspector, shunting; a yard inspector *q.v.* who supervises all shunting arrangements in large yard or sidings.

Inspector, sidings; walks round, in marshalling yard or sidings, inspecting goods wagons to ensure that they are properly loaded before departure, where this is not done by goods train inspector or lead inspector *q.v.* reports to yard inspector *q.v.*

Inspector, signal; makes periodical inspection of signalling system of a defined district, arranging for repairs where necessary.

Inspector, signal and telegraph; combines duties of signal inspector and of telegraph inspector *q.v.*

Inspector, station; is responsible to stationmaster *q.v.* for general control of traffic on station platforms; directs porters, parcel porters, horse and carriage porters (706), ticket collectors (705) *q.v.*

Inspector, stores; makes periodical inspections of stores at stations or depôts of a district; checks stocks and examines as to condition.

Inspector, telegraph; makes periodical inspections of telegraph offices and signal boxes; sees that instruments, etc., are in working order.

Inspector, timber; inspects all timber supplied for use on railway works in a particular district; examines it as to fitness, correctness of measurements, etc.

Inspector, timber loading; a head office inspector or a district inspector *q.v.* who inspects loading of timber on railway rolling stock, and ensures that loads are properly secured.

Inspector, time bill; a head office inspector *q.v.* who carefully checks new time bills before issue, to ensure that times of trains are correctly given.

Inspector, toll; is responsible to traffic inspector or to district traffic manager *q.v.* for efficient working of company's toll bridges; pays surprise visits to toll houses, receives reports from toll collectors (706) *q.v.*, instructs them, where necessary, regarding working of bridges, and usually receives monies collected.

Inspector, tracing; supervises work of searchers and tracers (706) *q.v.* of a district.

Inspector, traffic; is responsible to district traffic manager *q.v.* for inspection and supervision of traffic working in his district; enquires into and reports on delays, etc., in order to ensure smooth working.

Inspector, train; investigates train delays and is generally responsible for running trains to scheduled time in his district; graded as district inspector *q.v.*

inspector, train wagon, *see* inspector, carriage and wagon.

Inspector, travelling; a head office or a district inspector *q.v.* in any department who travels on goods or passenger trains, as distinguished from one who is normally stationed at head office of railway or district or at a particular station; sometimes specifically designated, *e.g.* goods train travelling inspector, travelling excess inspector, travelling horse inspector, travelling luggage inspector, travelling mineral train inspector, travelling parcels inspector, inspector, travelling tickets; a travelling inspector *q.v.* who boards corridor trains and examines passengers' tickets, as a check on work of travelling tickets collectors and examiners (703) *q.v.*

Inspector, tunnel; makes periodical examination of all tunnels and reports on their condition to superintendent of works *q.v.*

Inspector, wages; *see* inspector, carriage and wagon.

Inspector, weighing machine; periodically examines weighing machines of a district as to correctness and condition, arranging for repairs where necessary.

Inspector, yard or chief yardman; an inspector, usually in goods yard, who directs and supervises staff employed in goods yard or passenger yard of large station.

Inspectress (waiting room); is responsible for regular inspection of women's waiting rooms in a defined district as to cleanliness, efficiency of attendance, etc.

Luggage searcher; an inspector *q.v.*, attached to a district office, who visits stations within his district to trace lost luggage; inspects station receptacles, etc.

Manager, carriage; is responsible to goods manager *q.v.* for efficiency of carriage arrangements of a railway; directs inspectors and other grades engaged in connection with carriage.

Manager, district goods; district goods superintendent; directs goods agents and canvassers *q.v.*; is responsible to goods manager for efficient carrying-on of goods traffic in his district; duties *cf.* for manager, goods; *cf.* manager, divisional goods.

Manager, district passenger; is responsible to passenger manager *q.v.* for efficient working of passenger traffic in a specified district; directs and controls passenger agents, canvassers *q.v.*, etc.; also supervises, or corresponds with, ticket agencies in his district.

Manager, district traffic; combines functions of district superintendent, district passenger and district goods manager *q.v.*

Manager, divisional goods; a goods manager *q.v.* in charge of goods throughout a division of a railway, *i.e.* area larger than a district; *cf.* manager, district goods.

Manager, general; is supreme managing officer of railway to whom secretary, chief accountant, chief mechanical engineer, superintendent, passenger, goods and mineral managers and all other officials and employees of railway are directly or ultimately responsible; is himself responsible to board of directors, advises and consults with them, and carries out policy decided upon by them.

Manager, general traffic; traffic manager, traffic superintendent; combines functions of superintendent, passenger manager, and goods manager *q.v.*

Manager, goods; chief goods manager; is responsible for relations of railway company with trading community; for solicitation of business; for classification of goods traffic; for determination of goods rates and charges and quotation of exceptional rates; for storage and carriage arrangements and for investigation

and settlement of claims arising in connection with goods traffic; directs and controls district goods managers *q.v.*; sometimes is assisted by carriage manager *q.v.*

Manager, mineral; as for manager, goods, but is concerned only with mineral traffic; sometimes is responsible also for distribution of locomotive coal.

Manager, passenger; is responsible for relations of railway company with public, so far as concerns passenger traffic, which includes parcels, milk, fire losses and carriage traffic; for solicitation of business, passenger, parcels etc. traffic; for classification of traffic and quotation of rates; for development of excursion and pleasure party traffic and arranging therefor; for parcels carriage arrangements; for investigation and settlement of claims arising out of passenger and parcels, etc., traffic; directs district passenger managers *q.v.*

Manager, sack and sheet; is in charge of sack and sheet shed departments, where these duties are not separately assumed by sack superintendent and sheet superintendent *q.v.*; supervises issue and return; sees that sacks and sheets are carefully stored, and kept in a state of repair.

Manager, traffic; *see* manager, general traffic.

Outdoor assistant, outside assistant; general terms covering officials of certain rank, *e.g.* running foreman, assistant goods agent *q.v.*, who are on outdoor as distinct from indoor staff.

Outdoor representative; *see* canvasser.

Plan keeper; has charge of plans in civil engineer's or draughtsman's room, in railway office; indexes them and produces them when called on to do so.

Relief supervisor; a district inspector *q.v.*, in any department, responsible for efficiency of arrangements for supplying relief employees of various grades in that department; keeps roster of employees available for relief and issues instructions by which parts vacant by reason of illness, holidays, presence of work, etc., are immediately filled.

Shed master; in charge of smaller locomotive shed than that supervised by shed superintendent *q.v.*, *i.e.* in which there are only a few, if any, locomotive foremen *q.v.*; duties vary between those of shed superintendent and of locomotive foreman, according to size of shed.

Station master; station superintendent; is in charge of passenger railway station; controls and directs work of staff of all grades; is responsible for all motives received, for correctness of stock of tickets, for regular rendering of all reports and returns, and for punctual despatch of trains; often, especially at small stations, also does work of goods agent *q.v.*

Station master, assistant; assists station master *q.v.* and replaces him in case of absence.

Station master, night; relieves station master *q.v.* during night; is responsible for general supervision while on duty, but does not exercise general management and control of station; usually done by station inspector *q.v.*

Station master, relief; a station master *q.v.* who controls no definite station, but is held in readiness to relieve a regular station master where necessary.

Storekeeper, chief; *see* superintendent, stores.

Sub-inspector; (i) an inspector of inferior grade or a foreman of superior grade in any department; (ii) an assistant inspector in civil engineer's department or in signal,

telegraph and electrical department; assists inspector, deputises on particular jobs and replaces him when he is absent.

Sub-inspector, signal and telegraph; as for sub-inspector.

Superintendent, general superintendent, superintendent of this line; is responsible to general manager, or to divisional general manager *q.v.*, for handling of all descriptions of traffic at stations and in yards, and its movement on running lines, for distribution of passenger vehicles, and for traffic statistics; directs district superintendents *q.v.*; as some lines also perform some or all of duties of passenger manager *q.v.*; sometimes specifically designated, *e.g.* day superintendent, night superintendent.

Superintendent, cattle; has administrative control of whole of cattle traffic department of a railway system.

Superintendent, chief stores; *see* superintendent, stores.

Superintendent, district; is responsible to superintendent *q.v.* for efficient performance, within a specified district, of duties delegated to him; controls station masters, yard masters, and other operating staff, controllers, guards (702), signaller (703), shunters (704), porters (706) *q.v.*, etc., within his district; *cf.* superintendent, divisional.

Superintendent, district goods; *see* manager, district goods.

Superintendent, district locomotive; is responsible to locomotive running superintendent *q.v.* for running of locomotives to scheduled time, including coaling, cleaning and shed routine generally, within a specified district; controls shed superintendents, shed masters *q.v.*

Superintendent, divisional; is responsible to superintendent *q.v.* for efficient performance, within a particular division, an area larger than a district, of duties delegated to him by superintendent; as for superintendent; *cf.* superintendent, district.

Superintendent, divisional locomotive; is responsible to locomotive running superintendent *q.v.* for efficient performance, within a particular division, an area larger than a district, of duties delegated to him; as for locomotive running superintendent; *cf.* superintendent, district locomotive.

Superintendent, electrical and telegraph; responsible for effective working of electrical and telegraphic systems throughout line, including electric lighting and maintenance of equipment, *e.g.* telegraph wires, instruments.

Superintendent, fish market; has charge of premises and staff of railway fish market.

Superintendent, goods; *see* agent, goods.

Superintendent, goods shed; goods yard superintendent, (obsolete), *see* yard master.

Superintendent, locomotive running; loco. running superintendent, locomotive superintendent, loco. superintendent; is head, at general or divisional headquarters, of department responsible for engine working for running repairs of locomotives at sheds, and sometimes also for washing, coaling, lighting and greasing of carriages, but not for construction; issues directions to district locomotive and station masters as to divisional locomotive superintendent *q.v.*

Superintendent, mineral trains; *see* agent, mineral.

Superintendent of works, superintendent of way and works; is responsible for maintenance, in good condition, of permanent way; directs permanent way inspectors *q.v.* accordingly.

superintendent, outside machinery; controls and directs staff responsible for care of and repairs to all outside machinery on a railway system, e.g. cranes, hauling apparatus, etc.

superintendent, passenger; combines functions of superintendent, so far as passenger traffic is concerned, and of passenger manager *q.v.*

superintendent, police, *see* chief of police.

superintendent, running shed; shed superintendent; is responsible to locomotive running superintendent, or to divisional locomotive superintendent or to district locomotive superintendent *q.v.* for oversight of locomotive running shed; directs train staff, drivers, firemen (701) *q.v.*, etc., and repair staff, boiler smiths (199), fitters (219) *q.v.*, etc.

superintendent, sack; supervises work of sack department of a rail way system, or a district thereof, sees that proper count is kept, and obtains reports from stations and depots as to state of stock; *cf.* sack and sheet manager.

superintendent, shed; (i) *see* superintendent, running shed; (ii) (obsolete), *see* yard master.

superintendent, sheet; controls and supervises all work in connection with tarpaulin sheets in a district, pays periodical visits to depôts; obtains returns showing stocks and disposal of sheets, etc.; *cf.* sack and sheet manager.

superintendent, signal; signalling superintendent; responsible to civil engineer for effective staffing, equipment and maintenance of signal system throughout railway; *cf.* superintendent, signal and telegraph.

superintendent, signal and telegraph; combines functions of signal superintendent and of telegraph superintendent *q.v.*

superintendent, station; (i) *see* station master; (ii) a goods agent *q.v.* in charge of a goods station.

superintendent, stores; chief store-keeper, chief stores superintendent; is administrative head of stores department of a railway system; controls purchases and issues of stores, including locomotive coal.

superintendent, telegraph; is responsible to civil engineer or to superintendent *q.v.* for effective staffing, equipment and maintenance of telegraphic system throughout railway, *cf.* superintendent, signal and telegraph; superintendent, electrical and telegraph.

superintendent, traffic, *see* manager, general traffic.

superior fireman, *see* chief fireman.

townsman, traffic collector, *see* car-builder.

train despatcher, *see* controller.

train timekeeper; a district inspector *q.v.* who keeps records of times of all trains arriving at, or departing from, a large station, and renders returns to authorities concerned.

yardman, chief, *see* inspector, yard.

yard master; depot master, goods shed superintendent, shed superintendent (obsolete); (i) is responsible for effective working of goods yard; personally or through assistant yard master *q.v.*, directs general foremen (goods), goods porters, checkers, callers-off, loaders (706) and, in particular, directs shunters (704) *q.v.* in breaking up incoming goods trains, marshalling wagons for trains; (ii) sometimes has similar responsibilities in passenger yard, marshalling and breaking up passenger trains.

yard master, assistant; assists yard master *q.v.* in directing marshalling operations in yard.

704.-LOCOMOTIVE ENGINE DRIVERS, FIREMEN, CLEANERS (including Motormen)

chargeman, engine cleaner, cleaner chargeman, cleaner shed chargeman; *see* engine cleaner; supervises engine cleaners *q.v.* in railway engine depot, and is responsible to running foreman or to running shed foreman (700) *q.v.* for efficient performance of their duties. cleaner, engine, cleans, with cotton waste, sponge, cloths, etc., paint, brasses and bright steel external parts (fixed and moving) of locomotive on its arrival at shed after a journey; removes dust, ash, etc., and greases steel parts in preparation for next journey.

cleaner, motor (electric railway); an engine cleaner *q.v.* who cleans parts of electric rail locomotive with cotton waste and brush, and dismantles for repair when necessary. cleaner, shed; an engine cleaner *q.v.* who has passed his tests for fireman *q.v.* on a locomotive, and is waiting for a vacancy; will relieve fireman when necessary; *see* fireman.

driver, engine; driver, loco; driver, (work, locomotive), locomotive driver, controls running of engine generally by operating valves, throttle, etc.; keeps look-out for signals; regulates supply of steam to engine according to nature of track, load and time schedule; applies brakes when necessary; supervises work of fireman and assisted by him, oils engine bearings, cleans and trims lamps, applies sand blast when rails are greasy; in conjunction with guard (702) *q.v.*, is responsible for time-keeping of train. driver, auto-car; *see* motor car driver; (i) an engine driver *q.v.* who drives train on rail motor branch line, engine and passenger coach usually being built as a whole; (ii) drives auto-car, or rail motor, used for inspection trips.

driver, electric motor bogie; a motor man *q.v.* who drives an electrically-propelled bogie used for conveying workmen, stores, etc., in connection with repair work.

driver, locomotive; loco. driver (work, locomotive); (i) *see* driver; (ii) more specifically an engine driver *q.v.* who drives a locomotive (steam, electric, petrol or compressed air) used for conveying materials, etc., at works, mines, quarries, docks, etc.

driver, rail motor car, *see* driver, auto-car.

driver, shunting; shunting engine driver; an engine driver *q.v.* in charge of a locomotive engaged in shunting operations in yards or sidings, and not on running lines.

driver, steam motor; *see* driver, auto-car, except that he drives a steam motor car.

engine man; general term to cover either engine driver or fireman *q.v.* engine man, shed; engine shunter.

engine driver *q.v.* as an engine shed employed on shunting engines, turning from one line to another by means of turntable, either manœuvreing them under own steam or pushing them with shunting engine as convenient.

engine-men's mate, shed, *see* fireman, shed.

fireman, engine fireman, locomotive fireman, engine stoker (locomotive), fireman, loco; (i) works on locomotive with driver *q.v.* and feeds furnace by shovelling coal from tender; cleans and brightens fire by raking, or, where oil fuel is used, regulates supply of oil and cleans burners; sees that steam is maintained at correct pressure; assists driver in oiling bearings; fills, cleans and trims lamps; fills sand box with dry sand before starting journey; sometimes takes charge of engine whilst driver is looking out.

fireman, locomotive (works or mines); stoker furnace of works loco-

motive and generally assists locomotive driver *q.v.*; watches for signals from shunters (704), and sometimes assists engine shunter *q.v.* by acting as shunter and pointman; keeps bellers, etc., of locomotive clean.

fireman, shed; shed engine-men's mate; acts as fireman *q.v.* to shed engine-men *q.v.*

fireman, steam motor; acts as fireman *q.v.* to steam motor driver *q.v.*

foreman engine cleaner, *see* charge-

man engine cleaner.

motor man; drives an electric train, by operating control levers and brakes; watches for guard's starting signal and keeps look-out for signals along line; in conjunction with guard, is responsible for time-keeping of train.

pilot, pilot man; (i) an engine driver *q.v.* delegated to drive between two points to pick up goods train at first point and leave it at second; (ii) after breakdown, a competent person (railway official designation) e.g. a guard (702) *q.v.*, who accompanies a train between given points on single line, other line being temporarily out of use, to advise driver of difficulties of road, special signalling arrangements, etc., really derivative badge; no train may travel on such line without pilot; *cf.* pilot guard (702).

stoker, engine stoker (locomotive), *see* fireman.

turner, engine turner, turntable man; acting in conjunction with shed engine man, or shunter, or motor car driver, turns upon which locomotives are turned round, to enable them to be changed from one line to another, or to face in opposite direction from that which they arrived.

turner, shed; turner-in; a turner *q.v.* who operates turntable to allow of motives to run into or out of engine shed.

702.-RAILWAY GUARDS, etc.

acting guard; a porter-guard *q.v.* who acts as guard *q.v.* in case of emergency.

assistant guard; under guard; a goods guard or passenger guard *q.v.* travelling on section of train which is uncoupled from main train at certain point and goes forward as separate train; after train divides, is responsible for control of brakes in his portion of train and for passing-on starting signal to driver (701) *q.v.*; after train divides, takes charge as guard *q.v.* of his portion of train; sometimes specially designated, e.g. assistant goods guard, assistant passenger-guard.

attendant, ballast train, *see* ballast guard.

attendant, carriage; club carriage attendant, club select attendant, smoking attendant, sleeping car attendant, *see* for attendant, train.

tendant, train; attends to passengers' comfort on long-distance expresses, especially night trains; patrols train, answers queries, fills lavatories, etc.; on night trains, prepares sleeping compartments, issues pillows, rugs, etc. to passengers in ordinary compartments; sometimes examines passengers' tickets en route; *see* porter, mainly engaged, *cf.* ticket cutlector (703).

auto car guard, *see* conductor, motor, ballast guard; ballast train attendant, ballast brakeman; a goods guard *q.v.* in charge of a train of trucks conveying ballast for use in repair or permanent way.

brakeman, ballast, goods, mineral, passenger, *see* ballast guard, goods guard, mineral guard, passenger guard, respectively.

branch guard; a goods guard or passenger guard *q.v.* who works on branch line trains; sometimes specially designated, e.g. branch goods guard, branch passenger guard.

carriage guard, *see* passenger guard.

collector guard; a passenger guard g.v. who collects passengers' tickets en route at certain stations on branch lines; sometimes issues voucher fares to passengers without tickets, and collects fares from them.

conductor (electric railways); a passenger guard g.v. on an electric train. conductor, motor; motor car conductor, rail motor guard; conductor; motor guard, auto car guard; a passenger guard g.v. in charge of a small train (generally of one or two coaches, propelled by engine controlled from one of these coaches) employed on local shuttle services; sometimes issues tickets to passengers boarding train en route, and collects fares from them.

electric train conductor, electric train guard; a passenger guard g.v. who accompanies an electric train to coach next to driver; receives bell signals from gatesmen on underground railways; cf. gatesman (electric train). fish guard; a passenger guard g.v. in charge of train of trucks conveying fresh fish from port to London or other inland centres, and travelling under passenger train signalling arrangements.

freight guard, see goods guard.

gatesman (electric train); travels on platform at end of a coach, or pair of coaches, in an electric train and opens and closes gates at stopping stations; gives, or receives, and passes signal when train is ready to proceed.

goods guard; freight guard, goods brakeman; a guard g.v. who works on a goods, haulage or mineral train, whether on main or branch line or in yard or siding; is responsible for seeing that packages or full trucks for foreign lines are delivered or uncoupled at tranship stations; sometimes also does work of train preparer g.v.

guard; in charge of a train (passenger, goods, etc.); examines train before journey is started to ensure that it is in running order; is responsible for keeping records of running times of his train; controls emergency brakes; gives starting signal to driver (701) g.v., and delivers railway correspondence at stopping stations.

mineral guard; mineral brakeman; a goods guard g.v. in charge of mineral train.

motor guard, see conductor, motor.

passenger guard; carriage guard, passenger brakeman; a guard g.v. in charge of a passenger train; sorts luggage and parcels en route to facilitate prompt discharge at stopping stations; sometimes examines and, in some cases, collects passengers' tickets between stations during journey; receives and delivers tickets sometimes also issues tickets to passengers joining train at halts where there is no booking office.

pilot guard; a guard g.v. who pilots trains over portion of line where single line working necessitates, or over bridges under repair.

porter-guard, porter-brakeman; a porter (705) g.v. employed most of his time as guard on local goods or passenger trains, learning guard's duties in preparation for promotion if suitable.

relief guard, spare relief guard; a guard (passenger or goods) g.v. who is available to take place of a guard absent from duty.

sorting guard, parcels sorting guard; a passenger guard g.v. who is specially facilitated to sort parcels en route to facilitate prompt handling at stations.

spare goods guard; a goods guard g.v. available to take place of another guard absent from duty.

train preparer; goes along train in goods yard and sees that wagons are properly coupled before journey; graded as porter-guard g.v. by whom work is sometimes done.

tranship guard; a goods guard g.v. who travels in train with passenger guard where goods from train are to be transhipped, i.e. loaded into vessels or transferred to other lines, etc.; remains with goods until transhipment completed and renders invoice to foreman porter (706) or to station master (700) g.v. under guard, see assistant guard; sometimes specifically designated, e.g. under goods guard, under passenger guard.

703.—SIGNALMEN.

assistant signalman, see underman. assistant signalman, relief, see signalman, relief.

block boy, see signal lad.

bridgeman (railway); directs water traffic through water way, crossed by movable railway bridge, when bridge is open; attaches fasteners to bridge pins to prevent latter from closing; sometimes moves levers which open and close bridge, and if it is also a pedestrian bridge, locks and unlocks gates giving access thereto; sometimes relieves in signal box; graded as signalman or as porter (706) g.v. according to exact nature of duties.

bridge master; a signalman g.v. working in a signal box which controls railway traffic over a swing or movable bridge crossing a waterway; gives signal to bridgeman g.v. to open bridge to allow water traffic to pass; gives signal upon approach of train. charge signalman; is in charge of a signal box in which two or more signalmen are employed; obsolescent; signalmen now generally take charge in turn, in such a box.

learner, signal; (i) a signal lad g.v. working in a signal box, under supervision of signalman g.v., learning duties in preparation for taking over full responsibilities; (ii) a boy sent to School of Signalling to learn signalman's duties before entering signal box; usage confined to one railway, obsolescent.

relief man (signalman), see signalman, relief.

signal lad, signal clerk; block boy, telegraph lad, train booker, train recorder, train register boy; works in signal box under supervision of signalman g.v.; transmits minor telegraph and telegraph messages; records in block book movements of trains into and out of section; at age of 18 is graded as porter (706) or as porter signalman g.v.

signalman (railway); works in a signal box, controlling movements of trains over a section of line; receives and despatches, by telephone or telegraph, messages as to movements of trains; accepts trains, i.e. allows them to enter his section, or refuses them; i.e. keeps signal against them if line not clear; pulls levers to move signals and points along section of line under his charge; is responsible for keeping block book; cf. signal lad.

signalman, district relief, see signalman, relief.

signalman, porter; signal porter; a porter (705) g.v. who performs duties of signalman g.v. in order to learn duties in preparation for promotion to that grade.

signalman, relief; sick relief signalman, spare signalman, travelling signalman; district relief signalman, relief assistant signalman, spare man, special staff man; a signalman g.v. available to take place of an absent signalman, at any signal box in a particular district when not on relief duty, is posted in a busy box, which he has not relieved for a considerable time, to keep in touch with work.

signal porter, see signalman, porter. signal porter, relief; a porter signalman g.v. who takes place of an absent signalman or porter signalman.

spare man, special staff man (signalman), see signalman, relief.

staff man; a signalman g.v. who delivers special staff to engine-driver (701) g.v. on single line, authorising him to travel over next section, and receives from him staff for section just passed; obsolescent.

tabletman (railway); a signalman g.v. who works electrical tablet train block signalling system on single lines; receives tablet from engine driver (701) g.v. for last section, and hands him one to clear him for next section.

telegraph lad (railway signal box), see signal lad. telegraphist, signal (railway); a signalman g.v. who sends and receives telegraph messages in a large signal box; does other work of signalman as necessary.

towerman (railway); train reminder; a signalman g.v. who stands on a tower, bridge, or other vantage point, and gives signals as to movement of trains, especially those being shunted, by flag signalling.

traffic regulator; a signalman g.v. of higher grade, available to go to any signal box in a particular district and to regulate precedence of trains during breakdowns or a delay on line; gives instructions to signalmen working in box; sometimes is permanently posted in a very busy signal box.

train booker, train recorder, train register boy, see signal lad; cf. train recorder (706).

train reminder (railway), see towerman.

tunnelman (railway); a signalman g.v. whose box is at mouth of a tunnel.

underman (signalling), under signalman; assistant signalman; a signalman g.v. who assists another signalman in a box requiring more than one operator.

704.—SHUNTERS, POINTMEN, AND LEVEL CROSSING MEN.

assistant district traffic foreman; supervises running of goods trains in specified area, e.g. section of district covered by district inspector (705) g.v., or in large goods yard, under control of yard master (700) g.v.; in latter case, has rather more responsible duties than yard foreman g.v. backing-out porter; a shunter g.v. who directs, by hand signalling, engine driver (701) g.v. when backing train out of station, siding, or shed.

bank foot man, incline; stands at foot of bank or incline and releases brakes of goods wagons as they reach level; cf. bankman.

bank head man, incline, see brakeman, bank.

bankman; incline man, plane man; a shunter g.v. engaged in shunting operations on a bank (hump) or incline; uncouples trucks on incline so that they descend by own gravity, are steadied by bank brakeman g.v., and are directed into appropriate siding at foot by pointman g.v.

brakeman; a shunter g.v. employed in yard, who applies brakes to stop goods wagons, as necessary, during shunting operations; depresses brake levers, by hand, or by sitting on them, of shunter; work done by goods guard (702) g.v. when travelling.

brakeman, bank; incline brakeman; incline bank head man; stands at top of bank or incline, and applies brakes of goods wagons, before they descend bank, cf. bankman.

branchman (shunter); a shunter g.v. shunting mainly on branch lines, instead of mainly in shunting yards; sometimes travels on goods train from one station siding to another to do shunting where no shunter is kept.

breaker; train receiver; a shunter g.v. responsible to yard foreman (traffic department) g.v. for receiving goods trains on arrival at shunting or marshalling yard, and breaking them up into sections of one or more trucks to be shunted into appropriate sidings, sidings or stages for unloading.

chain horse driver; see chain horse driver.

chain horse lad; slipper boy or lad; assistant about horse driver g.v.; attaches and detaches (slips) chain hook from truck to slacken speed, etc., holds horse when not working; coach worker; coaching shunter; a shunter g.v. shunting passenger train vehicles.

connector, train connector; coupler, hook-on; a shunter g.v. who couples up trucks into sections in goods yards or sidings; or who couples-up passenger coaches and joins up brake connections in readiness for journey.

connector, passenger train; carriage coupler; a connector g.v. who couples-up passenger train vehicles.

coupler; see connector.

coupler, carriage; see connector, passenger train.

crossing keeper, level crossing keeper; gatekeeper, gateman (level crossing); level crossing gateman, level crossing man; in charge of a level crossing on a railway line opening and closing gates by hand-worked mechanism, or by hand, for passage of trains, or for passage of road vehicles and (sometimes) pedestrians. Sometimes also lights, trims and cleans lamps on crossing gates; performs duties of crossing policeman, flag man, signal gateman, or of gatekeeper and pointman g.v.

crossing policeman, crossing watchman; policeman (protecting crossing); a crossing keeper g.v. stationed at a level crossing or at cross road where railway traffic, rail, motor, or canal, is continually passing across a public highway, to warn travellers of approaching traffic and to prevent trespass; is not member of railway police force; cf. policeman (709).

despatch foreman; a yard foreman (traffic department) g.v. responsible for seeing that marshalling proceeds so that trains start at scheduled time, precise formation dependent upon yard organisation.

flagman, train flagman; a crossing keeper g.v. who waves a red flag to warn road travellers of approaching traffic at a level crossing, etc.

foreman (passenger) shunter; a yard foreman g.v. engaged at carriage sidings and stations in making-up and altering composition of passenger trains.

foreman shunter; see yard foreman (traffic department); obsolete.

foreman shunter (coal mines); see traffic shifter (coal mines).

gatekeeper and pointman; pointman and level crossing keeper; a crossing keeper g.v. who also operates, by hand lever, a set of points adjacent to his post, cf. pointman.

gatekeeper, gateman (coal mines); in charge of gates at coal company's railway crossing; opens and closes gates to allow passage of coal trucks, workmen or general public.

gatekeeper, gateman (level crossing); see crossing keeper; cf. gatekeeper, gateman (708).

gateman, relief; a crossing keeper g.v. who takes place of any crossing keeper absent from duty in a specified district.

gateman, signal; gateman and signalman; a crossing keeper g.v. who also operates set of signals, not block signals, at his post.

gatewomans; opens and shuts gates at level crossing to allow road or railway traffic, as case may be, to pass.

ground framan, ground pointman; ground signalman, groundman; outdoor pointman; a pointman g.v. who moves hand levers in the open to work single points or ground signals and points in ground frames.

hose shunter; leading shunter; in charge of a number of shunters g.v. at large goods yard; obsolete.

hook-on; see connector, horseman (shunting), horse pilotman, see shunt horse driver.

incinerator; see bankman.

latcher, loco latcher, lachman, see pointman (or boy) (mines, quarries, works railways, etc.).

leading shunter; see head shunter.

level crossing gateman, level crossing man; see crossing keeper.

marshman; arranges shunting of trucks and wagons in goods yards or sidings to make up trains, or sections thereof, in readiness for journey; if mainly engaged in supervisory duties, is graded as yard foreman, otherwise as shunter g.v.

mineral foreman; a yard foreman g.v. employed at a mineral depot.

planeman; see bankman.

point box man; a pointman g.v. who operates points from box in shunting yard.

point holder; a pointman g.v. working in yards or sidings, who holds back, by moving hand levers, "spring-points" (points which have no locking lever), releasing them when rolling stock being shunted has passed.

points boy, points lad; switch boy, switch lad; puller levers, etc., under instructions of pointman g.v. and latcher, his work.

pointman; switchman; operates set of points or switches in shunting yards or sidings; sometimes gives and receives bell signals, but is not in charge of block points; usually works in pairs. If working ground frame or single point levers, cf. ground framan. Works under cover, in a point box, cf. point box man, where there is an electric valve system of point working and yard signalling, or in large yards, where point levers have been assembled in point box: cf. point holder, point turner.

pointman and level crossing keeper, see gatekeeper and pointman.

pointman (or boy) (mines, quarries, works railways); latcher, lachman, loco latcher, shunter (mines, quarries, etc.); rides on locomotive with driver, couples and uncouples wagons, and alters points on works railway or sidings to control movements of vehicles.

pointman, outdoor; see ground framan.

point turner; a pointman g.v. who operates turn-points, points worked by horizontal arm, instead of usual pullback levers.

policeman (protecting crossing); see crossing policeman.

porter gateman; combines duties of porter (706) and of crossing keeper g.v.; obsolete.

porter, horseman (shunting); combines duties of porter (706) and of shunt horse driver g.v.; obsolete.

porter, mineral; a shunter g.v. employed at a mineral depot; obsolete.

porter, pointman; combines duties of porter (706) and of pointman g.v.; obsolete.

porter shunter, porter yardman; combines duties of porter (706) and of shunter g.v.; obsolete.

regulator, yard regulator; obsolete; see yard foreman (traffic department).

scotcher, scotch lad, scotch spragger; see spragger.

shunter; from setter (obsolete), shunder; couples and uncouples locomotives and empty railway vehicles to enable them to be moved into position or arranged in order (marshalled) in yard or sidings; signals, usually with his arm, movements required to engine driver (704) or to shunt horse

driver g.v. to move vehicles backwards or forward or to stop, as necessary; lifts, with his coupling rod, lever at wagon side to apply brake, as required; marshals and couples-up passenger coaches or goods wagons in readiness for journey; breaks-up trains on arrival at goods depot, or on return to exchange sidings after a journey, and directs shunting of units or sections into appropriate sidings; when employed at passenger stations, couples and uncouples locomotives and horse boxes and shunts horse boxes into and out of sidings, sometimes specifically designated, e.g. carriage and wagon shunter, coaching (i.e. passenger carriage) shunter, dock shunter, freight shunter, goods shunter, passenger shunter, wagon shunter.

shunter and lampman; combines duties of shunter g.v. and lampman (705) g.v.; obsolete; graded as shunter or, alternatively, as lampman, according to work upon which mainly engaged.

shunter, coachman; see coach worker.

shunter, horse; pilot shunter, see shunt horse driver.

shunter (mines, quarries, works railways, etc.) see pointman (mines, quarries, works railways).

shunter, relief; takes place of any shunter g.v. within a prescribed district, who may be absent from duty.

shunter, shed; a shunter g.v. employed in shed to move local wagons about and to arrange in order for despatch; uses a pole to move wagons.

shunter signalman (railway); operates signals in shunting yard or siding as required by shunters g.v.; cf. yard signalman.

shunter, trip; travels with goods train to see shunting work at a small yard or siding where no shunter g.v. is stationed; sometimes does work of goods guard (702) g.v. and is so graded; otherwise graded as shunter.

shunt horse driver; a brakeman g.v. who applies brakes as directed by shunt horse driver g.v.; normally only driver is employed.

shunt horse driver; chain horse driver, horseman (shunting), horse pilotman, horse shunter, pilot shunter, truck horse driver; in charge of horse which draws trucks or coaches into or out of railway sidings or on to branch line during shunting operations; yokes and unyokes horse to and from truck or coach, as necessary; groom and attends to horse where there is no stableman. (725) g.v.

shunt minder, sideman (coal mines); directs shunting arrangements in sidings and branch railway at colliery; cf. leading minder (703).

signalman, yard (railway); controls and operates signals in a goods yard or a passenger coach yard; cf. shunter signalman.

slipper boy or lad; see chain horse lad.

spragger; scotcher, scotch lad, scotch spragger; applies extra brake power to mineral train trucks at top of steep incline by inserting sprags or scotches, i.e. billets of wood, between wheel spokes and axle guards to prevent wheels turning; rides on train to bottom of incline, where he removes sprags; or is similarly employed in shunting yards under direction of shunter; cf. brakeman.

switch boy, switch lad, see points boy.

switch keeper (colliery); a pointman g.v. in a colliery district who operates points to run coal trucks into various coal sidings.

switchman, see pointman.

traffic shifter (coal mines); foreman shunter (coal mines); is responsible for moving of railway wagons to and from railway sidings at screens; supervises pointmen (mines, etc.) and shunters g.v.

train foreman; obsolete; see yard foreman.

train receiver, see breaker.
 train setter; obsolete, see shunter.
 trapper; a pointman *q.v.* employed in coal mining district, who switches or "traps" individual coal trucks or wagons (or groups of trucks or wagons) into different sidings as they are "hit up" by shunting engine driver (701) *q.v.*
 truck horse driver, see shunt horse driver.
 truckman (metal mines); a shunter *q.v.* on surface of iron ore mine, who moves railway wagons about; may also work points, see pointman (mines).
 under shunter; under direction of shunter *q.v.*, couples or uncouples railway vehicles, applies brake to wagons, directs units into sidings and otherwise assists in shunting operations.
 wagon berther; a shunter *q.v.* who detaches trucks and shunts them into required berths in yard for loading or unloading.
 wagon changer; wagon lowerer, wagon runner, wagon shifter; changes wagons when filled at screen or vacker, i.e. runs out full wagons and replaces by empty ones.
 wagon distributor, see wagon sorter.
 wagon lowerer, see wagon changer.
 wagon runner; (1) see wagon changer; (2) name sometimes given to shunter or pointman *q.v.* in ship-building yards.
 wagon shifter, see wagon changer.
 wagon sorter; wagon distributor; a shunter *q.v.* who sorts out and assembles empty wagons in goods yard according to their home stations, ready for return.
 yard foreman (traffic department); (obsolete) foreman shunter, regulator, train foreman, yard regulator; directs work of shunters and of pointmen *q.v.* in passenger or goods marshalling yard, is responsible to yard master, yard inspector (700) *q.v.* for shunting operations generally, and in particular for receipt of trucks at appropriate platforms for loading and unloading, for movement of traffic in yard, and for marshalling trains in readiness for departure from yard; in large sheds above work may be subdivided among two or more yard foremen.
 yard foreman, passenger; a yard foreman *q.v.* who directs work of shunters and pointmen *q.v.* marshalling passenger train vehicles.
 yardman, see shunter.

705.—TICKET COLLECTORS AND EXAMINERS.

chief ticket collector, see foreman ticket collector.
 clerk collector, combines duties of clerk (390) and of ticket collector *q.v.*; obsolete, now graded either as clerk or as collector according to exact nature of duties.
 corridor train collector, see train ticket collector.
 excess collector, excessman; collects excess fares from passengers when travelling, *e.g.* by a route or in a class other than that covered by their tickets; obsolete, now graded as ticket inspector, ticket collector or train ticket collector *q.v.* according to exact nature of his duties.
 foreman ticket collector, foreman ticket examiner; chief ticket collector, head ticket collector, senior ticket collector; controls work of ticket collectors *q.v.* at large stations; arranges rosters etc.; sometimes himself collects tickets.
 gateman (ticket collector), gate ticket examiner, see ticket collector.
 head ticket collector, senior ticket collector, see foreman ticket collector.
 ticket collector, ticket checker, ticket examiner, ticket taker; gateman (ticket collector), gate ticket examiner; collects and examines tickets of passengers leaving arrival

platform; examines and clips tickets of passengers entering departure platform; charges excess fare where due.
 ticket inspector; boards trains and examines passengers' tickets; directs passengers as to route where necessary; collects excess fare where due, or takes particulars of passengers' addresses, etc., for recovery of fares in certain instances.
 toll collector, bridge toll collector; collects tolls from pedestrians, drivers of vehicles, cattle drivers, etc., passing over bridge owned by railway company; renders periodic reports to toll inspector (700) *q.v.*
 train ticket collector, travelling ticket collector, travelling ticket examiner; corridor train collector; collects tickets on corridor trains and excess fares where necessary; is attached to head office or to a district office and is usually rostered to travel regularly with specific trains; under supervision of ticket inspector *q.v.*, makes surprise examinations of passengers' tickets at any station or on any passenger train running in specified district or on main lines.

706.—PORTERS AND LAMPMEN.

auto-carrier driver; electric truck operator; a parcel porter *q.v.* who drives electrically-propelled truck, conveying passengers' luggage at large railway station.
 bankman, horse and carriage, see porter, horse and carriage.
 booking hall inspector; hall inspector; has general supervision of booking hall at large station; directs passengers, etc.; graded as station foreman or as station inspector (740) *q.v.* according to size of station.
 book room assistant, book room attendant; book room porter; an office man *q.v.* who issues ledgers, books, columns of abstracts, returns, invoices, delivery notes, etc., from book room to offices as required, and replaces them when returned; is responsible for general care of book room.
 butter man (goods depot); a goods porter *q.v.* who is mainly engaged in loading and unloading cases of butter at goods station or depot.
 cab controller; a station foreman *q.v.* who sees that cabs keep their proper places on station rank; sometimes also calls cabs for passengers.
 caller, caller-off, caller-out; loads and unloads trucks in goods depot; calls out particulars of incoming and outgoing consignments, from labels on goods, to goods checkers *q.v.*, in preparation for their removal from platform or wagon by goods porters *q.v.*
 capstan man, capstan driver; capstan porter, jigger porter (slag); moves trucks in goods depot by depressing foot lever actuating automatic capstan to which one end of rope is attached, other end being attached to truck.
 carriage searcher; porter searcher; a porter *q.v.* who searches railway carriages after arrival of train at destination; removes newspapers and other articles left behind by passengers, to lost property office.
 cattle man; cattle loader, cattle porter; a goods porter *q.v.* who loads and unloads cattle at railway cattle shed.
 cellarman; a checker *q.v.* who keeps record of goods deposited in cellar warehouse rented by firms on railway company's premises.
 charge checker; a foreman *q.v.* who directs and controls checkers *q.v.* at goods station or depot.
 checker; referencer (obsolete); shipper; checks, by comparing with waybills, incoming consignments as they are unloaded by caller-off and by goods porters *q.v.*; checks weight of each consignment against consignment note as called off; records and

checks numbers or weights of outgoing goods and furnishes records to goods depot office; sometimes also works jigger, i.e. capstan, whilst checking goods into or out of railway warehouse; sometimes specifically designated, *e.g.*, coal checker, goods checker, grain checker.
 checker, fish; a checker *q.v.* wholly or mainly employed in connection with fish traffic; graded as parcel porter *q.v.*
 checker loader; check loader; weighs goods as checked on weights shown in consignment notes; graded as scaleman *q.v.*
 checker, mileage; a checker *q.v.* who is delegated to check goods to be charged on mileage basis.
 checker, milk; a checker *q.v.* wholly or mainly employed in connection with milk traffic; graded as parcel porter *q.v.*
 checker, parcel; a checker *q.v.* wholly or mainly employed in connection with parcel traffic; graded as parcel porter *q.v.*
 checker, railway; a checker *q.v.* who checks loading and unloading of railways, i.e. drays.
 checker, shed; a checker *q.v.* working on platform of goods shed, checking goods into and out of trucks and vans.
 checker, slip; a checker *q.v.* who checks contents of goods wagons with list shown on wagon slip.
 chief number taker; in charge of small staff of number takers *q.v.* at goods depot; is responsible for seeing that records properly kept and for general supervision of work.
 clock room attendant (male), clock room counterman; clock room porter, counter porter, left luggage attendant, left luggage porter, luggage room porter; receives luggage from passengers, issues vouchers, and returns luggage to owners on racks and returns it to owners on production of vouchers; makes returns and hands cash receipts to station master (700) *q.v.* or to cashier (550) *q.v.*; is sometimes assisted by porter *q.v.*
 despatch bag carrier; despatch office porter; a porter *q.v.* who carries letter despatch bags from one department of railway office to another, or between despatch office and trains.
 disinfecter; sprays cattle pens and cattle trucks with disinfectant.
 district relieving man, see porter, relief.
 dockman; (i) a horse and carriage porter *q.v.* at docks, i.e. platforms, where horses and carriages, cattle, etc., are loaded or unloaded at passenger station; (ii) a goods porter *q.v.* employed at seaport docks owned by railway company.
 electric truck operator, see auto-carrier driver.
 excess luggage collector, excess luggage labeller, excess luggage man; excess baggage weigher, excess porter, luggage weigher; casually examines passengers' luggage entering station and weighs it, if necessary, to see if over weight allowed free; collects excess charge where due; issues excess slips; labels luggage and sometimes assists in loading it into guard's van; passes cash receipts, with vouchers, to station master (700) or to cashier (550) *q.v.*
 excess man (parcel), parcel excess man; a parcel porter *q.v.* who weighs parcels in parcel despatch office, and surcharges any that are underpaid.
 fish transit man; attends to fish in transit discharging boxes, baskets, etc., at stations en route; removes ice when necessary, etc.; graded as parcel porter *q.v.*
 foreman, booking hall; a station foreman *q.v.* who supervises porters *q.v.* direct consignments to platforms, etc., in a booking hall or station approach.

foreman, excess luggage; a station foreman *q.v.* who directs and supervises excess luggage collectors *q.v.* and is responsible for efficient performance of their work.

foreman, fish; foreman fish porter; superintends loading and unloading of fish at a railway goods station or fish depot; graded as parcel foreman *q.v.*

foreman, general (goods); goods foreman; directs and supervises goods porters, checkers, callers-off, loaders *q.v.*, etc., at a railway goods station or depot, or section thereof; is responsible for efficient performance of their work.

foreman, horse, carriage, and dogs, H. C. & D. foreman; a station foreman *q.v.* who directs and supervises porters loading and unloading horses, carriages, and dogs at a horse and carriage dock.

foreman horse loader; horse leading foreman; a station foreman *q.v.* in charge of men loading and unloading horses at railway depot or quay.

foreman lampman, lamp-room foreman, foreman lamp-room porter, lamp foreman; a station foreman *q.v.* in charge of lamp-room at large railway passenger station, supervises lampmen *q.v.*; sees that lamps (mainly oil tail lamps) are properly cleaned and trimmed; is responsible for efficient working of lamp-room.

foreman, luggage; a station foreman *q.v.* who directs and supervises luggage porters *q.v.* at a station, or on one platform, or in luggage room, of a station.

foreman, milk; directs and supervises milk checkers and milk porters *q.v.* and other men handling milk traffic at a railway station; graded as parcel foreman *q.v.*

foreman, parcel; foreman parcel porter; directs and supervises parcel porters *q.v.* attached to station parcel office; is responsible to parcels inspector or to station master (700) *q.v.* for expeditious handling of incoming and outgoing parcel traffic.

foreman, parcel post; a parcel foreman *q.v.* in charge of parcel post traffic.

foreman, platform; directs and supervises porters *q.v.* on one particular platform; sees to handling of luggage; directs passengers, etc.; graded as station foreman *q.v.*

foreman, platform and general; a platform foreman *q.v.* who is also engaged, in a supervisory capacity, in general work of station; graded as station foreman *q.v.*

foreman porter (obsolete). *see* foreman, station.

foreman, receiving office; a parcel foreman *q.v.* who supervises work of staff at town railway receiving office, i.e. an office at a distance from station, where goods and parcels are received for despatch by railway.

foreman, station; foreman porter (obsolete); in charge of a link, or number, of porters *q.v.* in one block of work on station premises and occasionally works with them; is responsible to station master (700) or to station inspector (700) *q.v.* for efficiency of his block.

foreman, traffic; (obsolete); now graded as general foreman (goods, locomotive foreman (700) working foreman, or yard foreman (704) *q.v.*, or as foreman in connection with specialised traffic, e.g. fish foreman *q.v.*

foreman, train label board; sees that label boards, showing destinations of trains, are affixed to railway carriages before train starts *q.v.* and stores label boards in cupboard rack at terminals.

foreman, working; part of time directs and supervises goods porters, loaders, shunt horse drivers (704) *q.v.* and other manual workers at goods depot; is responsible to yard foreman (704) for efficient performance of

block of work under his charge, but is employed more than half-time in non-supervisory duties.

ganger in charge of goods gang; a working foreman *q.v.* in charge of gang of labourers working in goods depot.

gongman; a porter *q.v.* who sounds electric gong on platform and in refreshment rooms of station, to warn passengers of approaching arrival or departure of train.

goods brake van cleaner; van attendant, van transfer; sweeps out and cleans goods brake vans after journeys, and sees that vans are kept properly equipped; graded as porter, goods porter *q.v.* at passenger stations and goods stations respectively.

goods labourer, as for porter goods; (obsolete).

hall inspector, see booking hall inspector.

halt attendant; a porter *q.v.* who attends at roadside halt, where there is no proper station staff; collects tickets from passengers alighting; issues tickets as far as junction to passengers entraining; work often done by travelling porter *q.v.*

head parcel porter, *see* leading parcel porter.

head porter, *see* leading porter.

head transfer porter; a leading porter *q.v.* in charge of transfer porters *q.v.* at a section of line; is responsible for proper carrying out of arrangements for transfer of luggage from one station to another station close by.

horse box cleaner; a horse and carriage porter *q.v.* who cleans out horse boxes with shovel and broom; puts in fresh straw, etc.

horse dockman, *see* porter, horse and carriage.

indicator attendant, *see* porter, train indicator.

invoices affixer, invoice attacher; a goods porter *q.v.* who receives invoices of goods despatched from goods office, and places them in small receptacle on side of wagon or truck containing these goods.

invoice detacher; a goods porter *q.v.* who detaches invoices from goods wagons or trucks on arrival at destination, and takes them to delivery office.

invoice man; a checker *q.v.* on delivery side of goods station, who checks goods on arrival with invoices forwarded by sending station.

jigger lad, *as* for porter, jigger.

Kitson and Empire Light attendant, lad; a station lamp man, or lad, *q.v.* who keeps incandescent gas lamps, made on Kitson and Empire system, in good order.

label boy; keeps label cabinet replenished with labels, paste, etc., and assists luggage labeller *q.v.* generally; graded as porter *q.v.*

labeller, carriages; train labeller; a porter *q.v.* detailed to put labels on railway coaches, indicating destination, or on carriage windows, indicating that they are reserved, etc.; also chalks up place of disposal of coach when journey is ended.

labeller, luggage; a porter *q.v.* who pastes labels showing destination on passengers' luggage.

labeller, train, *see* labeller, carriage.

labeller, truck; wagon labeller; *see* porter; a goods porter *q.v.* who attaches labels, showing route and destination, to goods (usually coal) trucks; (obsolete).

lampman, lamp keeper, lamp lad, lamp lighter, porter lampman, station lampman; lamp porter, lamp room porter, lamp trimmer; cleans, fills, trims, lights and extinguishes at specified times, portable lamps used in station, passenger train rear lamps and passenger carriage roof oil lamps, where used; removes lamps on borrow to and from lamp room; at some

stations, performs similar duties in regard to fixed oil or gas lamps, where not done by carriage and wagon department.

lampman and point cleaner; point cleaner and lampman; a porter (grade II) *q.v.*, in small station or depot, who cleans and lights lamps and cleans points along a certain section of permanent way or siding; (obsolete).

lampman, brake; a lamp man *q.v.* engaged in cleaning, trimming, and filling lamps for use on goods brake vans.

lampman, signal; signal cleaner and lighter, signal porter; responsible for cleaning, filling, trimming, lighting and extinguishing of oil signal lamps, arm or disc, on signals or shunt signals at station or depot.

lamp trimmer, *see* lampman.

lavatory attendant; lavatory porter; a porter *q.v.* who cleans floors, wash-basins, urinals and w.c.'s at a railway station, collects fees for use of wash-basins, etc.

leading cloak room attendant; directs and supervises cloak room attendants *q.v.* at a large station, and works with them.

leading lost property office attendant; directs and supervises lost property office attendants *q.v.* at a large station, and works with them.

leading parcel porter; head parcel porter; directs and supervises parcel porters *q.v.* and works with them at a parcel office not large enough to justify employment of a parcel foreman *q.v.*

leading porter; head porter, senior porter; a working foreman *q.v.* in charge of small staff of porters *q.v.* where no station foreman *q.v.* is employed; is responsible to station master (700) *q.v.* for carrying-out of jobs done by staff under him.

left luggage attendant, *see* cloak room attendant.

letter porter, letter carrier, letter messenger, letter office attendant; letter porter, letter sorter; a large railway station or depot, railway correspondence delivered by guards (702) *q.v.* of incoming trains or received from station offices, makes them up into packages, for delivery by porters *q.v.* to various departments or to guards of outgoing trains; small depots both sorts and delivers railway correspondence.

linen attendant, linen room attendant; a porter *q.v.* in charge of linen room at passenger station; issues clean sheets for sleeping berths and towels for use of sleepers of passenger trains; receives soiled sheets, etc., and is responsible for their being sent to laundry; keeps record of linen issued and returned.

load adjuster; a goods porter *q.v.* who adjusts loads on goods wagons where loads have shifted or where they will not pass gauges.

loader; stands in wagon during loading; receives packages of goods from goods porters *q.v.*, stows them securely and conveniently for delivery at stations en route.

loader and stower, luggage; a porter *q.v.* who loads passengers' luggage in guard's or luggage van, and stows it so as to be easy of access at intermediate stations.

loader, cattle, *see* cattle man.

loader, cattle, *see* checker loader.

loader, horse, *see* porter, horse and carriage.

loader, motor wagon; a goods porter *q.v.* who loads goods into road motor wagons at railway goods depot.

loader, timber; a goods porter *q.v.* wholly or mainly engaged in loading or unloading timber, either sawn or round (i.e. train loads); secures timber in place on wagons with chains; sometimes specifically designated, e.g. round timber loader.

loader, warehouse; a goods porter *q.v.* employed in loading or unloading goods, into and from wagons, in a railway company's warehouse.

lead recorder; a checker *q.v.* who records total weights loaded on wagons.
lost luggage attendant, *lost property office attendant*; receives lost property collected from passenger coaches by porters *q.v.* receives correspondence regarding lost luggage and submits suggested replies to station master (700) *q.v.*; issues reclaimed property to rightful owners direct, or forwards it, on owner's request, to some other station; keeps record of lost property received and issued and passes cash receipts to station master.

meat pitcher; a goods porter *q.v.* who handles carcasses at railway meat depot as directed by general foreman (goods) *q.v.*

miner, weighman; records gross weights of railway trucks, containing minerals, as they pass over machine; notes also tare of each wagon and nett weight of contents prior to despatch; if at receiving station, checks weight on arrival with that shown on invoice; graded as weighbridge man *q.v.*

newspaper searcher, *as for carriage searcher*.

number taker; records, for transmission to Railway Clearing House, numbers of privately owned, non-common-car, wagons and of foreign wagons, i.e. belonging to other companies, entering or leaving goods depot.

office man; invoice porter, office porter; receives incoming invoices, advice notes, etc., goes to depot and stamps them with serial numbers, circulates invoices to checkers *q.v.*; after invoices, etc., cleared by clerks (336) *q.v.*, passes them into invoice book, advice book, delivery book, etc., in serial number order and files them for reference; is responsible for custody of invoice books, etc.

parcel sorter; sorts parcels in railway parcels office for despatch according to stations, or for delivery, by carmen (719) *q.v.*

passenger number taker; a porter *q.v.* who records numbers and other particulars of passenger rolling stock belonging to another railway company on its arrival at or departure from a passenger yard.

pillow attendant; a porter *q.v.* who issues pillows to passengers on night trains on payment of a small charge; collects pillows from trains at terminus; may also do work of rug porter *q.v.*

platform man (electric railway); a porter *q.v.* who stands on platform of an electric railway and attends to closing of carriage doors or gates and to marshalling of passengers, e.g. away from entrance to avoid congestion.

point cleaner and lampman, *see* lampman and point cleaner.

porter, railway porter; in passenger department, duties, especially at small stations, are multifarious, but usually include some or all of following: (grade 1) carries passengers' luggage from station entrance to platform or vice versa; labels luggage and puts it in luggage office; removes luggage of arriving passengers from van; calls out destination of train as it approaches station and name of station while train stands therein; shuts carriage doors as train departs; unfastens couplings and brake connections when train has to be divided and couples them up when two or three portions of train have to be united; searches carriages on arrival of train at destination; for luggage and parcels left therein; supplies rugs, pillows and linen to travellers on night trains; loads or unloads parcels, luggage, milk cans, etc., into guard's van, or into special vans or trucks; cleans station platforms, waiting rooms, booking office and other station premises; removes old time tables from train table boards and pastes up new ones,

often also acts as lampman and sometimes as ticket collector (705) *q.v.* and in various other capacities; (grade 1) is engaged chiefly on more responsible work, e.g. issuing tickets at small stations (but does not do clerical work); at large stations does specialised work, e.g. coal porter, train indicator porter *q.v.*; in goods department, at where duties are specialised is usually specified by designated e.g., goods porter, parcel porter, horse and carriage porter *q.v.*, etc.

porter, basin; a goods porter *q.v.* who transfers goods from one truck to another in transferring area (basin) of a large goods depot or junction.

porter, booking; a porter *q.v.* who also acts as booking clerk (390) *q.v.* at small station.

porter, book room, *see* book room assistant.

porter, captain, *see* captain man.

porter, cash box; cash porter; travels with, and carries, special boxes which are used for transport of cash between stations and head office.

porter, cattle, *see* cattle man.

porter, cloak room, *see* cloak room attendant (male).

porter, clothing; assists in clothing or undressing of railway company; cf. porter, equipment.

porter, coal; a porter (grade 1) *q.v.* who fetches coal for fires in waiting-rooms, booking offices, etc., of a railway station.

porter, courier; (1) *see* porter, parcel; (2) *see* cloak room attendant.

porter, despatch office, *see* despatch bag carrier.

porter, equipment; assists in railway equipment stores, cf. porter, clothing.

porter, excess, *see* excess luggage collector.

porter, fish; a railway porter *q.v.* wholly or mainly engaged in loading and unloading fish into and from railway vehicles; cf. fish porter (740) (700).

porter, front door (railways), *see* porter, hall.

porter, goods; a railway porter *q.v.* employed at railway goods stations and depots in loading and unloading goods trucks, sweeping goods yard, cleaning cattle pens and wagons, carrying messages, attaching and detaching truck labels, etc.

porter, grain; a goods porter *q.v.* wholly or mainly engaged in handling grain.

porter, hall; front door porter; attends at entrance of a railway station, assists passengers with luggage, answers enquiries, etc.

porter, horse and carriage; horse box porter; horse and carriage bankman, horse dockman, horse leader; loads and unloads horses, show cattle, and dogs when not sent as parcels; carries, makes cars, theatrical scenery, etc., at passenger station sidings; cleans empty horse boxes, disinfects with sprayer and lime washes for future use; sometimes acts part time as porter or parcel porter *q.v.*

porter, invoice, *see* office man.

porter, lighter; (i) operates lifter, i.e. automatic chain hoist, used for raising or lowering goods to or from street level or from one floor to another in goods warehouse; (ii) *strong*, *see* captain man.

porter, junior; a porter *q.v.* under age of 18.

porter, lamp; lamp room porter, *see* lampman.

porter, lavatory, *see* lavatory attendant.

porter, left luggage, *see* cloak room attendant (male).

porter, letter, *see* letter porter.

porter, lost luggage; lost property office porter (collier); handles lost luggage, graded as porter, lost property office attendant *q.v.*, respectively, when engaged mainly outside, or inside of lost property office.

porter, luggage; attends to passengers' luggage; sorts it out as received from van; helps in loading; wheels it to luggage room, etc.

porter, luggage room, *see* cloak room attendant.

porter, market; a goods porter *q.v.* who works in a railway market, carrying, loading, and unloading goods.

porter, mileage; a goods porter *q.v.* who handles goods charged on a mileage basis, ensuring mileage checker, etc.

porter, milk; a parcel porter *q.v.* wholly or mainly engaged in handling milk churns at a station.

porter, night; a porter *q.v.* employed, in any capacity, regularly on night duty.

porter, office, *see* office man.

porter, parcel; counter porter; meets incoming and outgoing passenger trains to receive and deliver parcels, including milk churns, fish barrels, vegetables and general merchandise sent at passenger train rates, by hand truck or electric trolley; weighs parcels received over counter or unloaded from vans and calls over weights to parcels clerk (336) *q.v.*; places parcels in trucks in readiness for despatch; assists horse or motor parcel vanmen (719, 720) *q.v.* in loading van for town delivery and does other portage work in parcels office under direction of parcels clerk.

porter, parcel delivery; a parcel porter *q.v.* who accompanies a railway delivery van and distributes consigned parcels; takes receipts and collects cash when necessary.

porter, parcel peel; a parcel porter *q.v.* who attends to loading and unloading of G.P.O. parcels vans at a railway station.

porter, post; helps load or unload G.P.O. mail bags.

porter, receiving office; a parcel porter *q.v.* delegated to work in town parcels receiving office; moves and stacks parcels, etc., in office; looks into collecting van.

porter, relief; district relief porter; district relieving man, relief man, spare man porter; a porter *q.v.* attached to a district office, who takes place of porter absent at any station in his district through sickness, holiday, etc., or who helps at any station when traffic is unusually heavy.

porter, rolling stock; a porter (grade 1) *q.v.* who assists rolling stock inspectors (700) *q.v.*, e.g. ramps parts of station sidings, etc., to obtain particulars, number and type, of carriages available.

porter, rug; has charge of and issues rugs to passengers on payment of fee; sometimes also does work of pillow attendant *q.v.*

porter, scrap; a goods porter *q.v.* handling scrap metal.

porter, searcher, *see* carriage searcher.

porter, shop parcel; a parcel porter *q.v.* who receives and issues parcels sent by shops and stores to await call of customers.

porter, spare man, *see* porter, relief.

porter's room attendant; cleans and attends to heating of porter's room at a railway station or depot.

porter, time-bill office; assists in time-bill office; packs up time-bills and notices for despatch to stations, etc.

porter, train indicator; indicator attendant, telegraph man, train indicating board attendant; operates train indicator board, which shows times of departure of trains, stations called at, etc., by altering clocks and/or using chalk and blackboard; may also chalk up details of trains late, etc.

porter, train label board; G.W.R. only, indicator board, showing destinations, in slots on sides of wagons, for carriage before departure of trains; after railways, work done by ticket collector (706) *q.v.*

porter, transfer; transfer man, transship man; (ii) a porter g.v. who takes passengers' luggage from one passenger station to another; (iii) a goods porter g.v. who transfers goods from one train to another for despatch to a station on a different line.

porter, travelling; a parcel porter g.v. who travels in baggage van to sort parcels en route.

porter, weighbridge; see weighbridge man.

porter, yard; yardman; a goods porter g.v. working in a goods yard; loads, unloads and cleans wagons; obsolete.

porter and deliverer; a checker g.v. employed at a small receiving office in towns, e.g. London; receives parcels, issues receipts, assists in loading collection or delivery railway vans.

relief man, obsolescent; see checker.

relief man, see porter, relief.

trepanner, roper, rope splicer; splices hemp ropes to capstan chains in goods depôt; maintains ropes in repair, sometimes also records metal tally numbers of incoming and outgoing foreign ropes, i.e. railway ropes belonging to other railway companies, and arranges for their return to home stations.

rope runner; a lad who, under direction of capstan man g.v., fastens and unfastens rope to and from wagons during shunting.

router, see labeler, truck.

sackman, sack sealer; a goods porter g.v. responsible for care and issue of sacks at a depôt, e.g. in agricultural areas, handling hired-out sacks to farmers and receiving same when returned; counts, stacks and examines sacks for repair; keeps records and returns to sack superintendent (709) g.v.; obsolete.

scaleman, scalesman; weigher.

weighman; weighs goods packages on beam scale on goods platform and calls out weights to checker g.v.; removes packages from scale for disposal by goods porters g.v.

searcher, see tracer.

senior checker; a checker g.v. undertaking more responsible checking of goods loaded or unloaded into or out of railway trucks and into or out of foreign warehouse, i.e. warehouse not belonging to railway company, or a cold storage depôt.

senior porter, see leading porter.

sheet collector, shetter, sheet hand, sheet man; folds and stores tarpaulin sheets removed from wagons.

shipper, see checker.

shunter in indicator cabin; employed at night; stationed in a cabin some distance above point at which shunters (704) g.v. operate, reads numbers on wagons released for shunting and turns an indicator to inform shunters of number of siding or platform to which wagons should be shunted; when not so engaged, does work of porter (grade I or II) g.v.

sidings man, sidings porter; a porter g.v. employed on sidings where goods, e.g. milk, general farm produce, are delivered to farmers, etc., direct from goods wagons; obtains signatures for goods received; chiefly engaged in loading, unloading goods wagons and other work normally done by goods porter g.v.; graded as goods porter who, in country districts, normally does such work.

signal cleaner and lighter, signal lighter, see lampman, signal.

slinger; a goods porter g.v. who fastens rope, chain, or wire sling round goods to be lifted by crane and hooks on to crane; obsolescent.

spare man porter, see porter, relief.

special station platform porter; a leading porter g.v. who performs ordinary work of porter, e.g. carrying passengers' luggage, closing carriage doors, calling out names of

stations, and who also has special duties, e.g. care of waiting rooms, work at loose docks, etc. in a station cleaner; a porter g.v., if employed at passenger station, or a goods porter g.v., if at goods depôt, who scrubs and sweeps floors of offices and waiting rooms, cleans windows, sweeps platforms, etc., on a railway station.

steward; a loader g.v. who works in railway goods station or depôt, stowing goods in order in which they are to be delivered.

telegraph man, see porter, train indicator.

telephone man; a porter g.v. who attends to telephones in railway office or station; sends and receives messages, etc.

timber measurer; measures timber to be transported by rail, and checks results with figures given in consignment notes or invoices.

train recorder; traces and searches for missing packages of incoming goods; makes appropriate entries on invoices when traced or otherwise.

train caller; a porter g.v. whose only duty is to call out destination of a departing train, names of intermediate stopping stations and parts of train allotted to such stations; also calls out name of own station on arrival of trains.

train indenting board attendant, see porter, train indicator.

train recorder, train reporter; a porter g.v. who records scheduled and probable times (if late) of arrival of trains and No. of arrival platform on indicator board at railway station, cf. train recorder (703).

train starter; a porter (grade II) g.v. who is detailed to give starting signal, e.g. rings bell denoting time of departure, on large platform.

transfer man, tranship man, see porter, transfer.

traverse hooker, traverse worker; a porter g.v. who traverses, by hand or by crane, a traverse table, on which locomotives or rolling stock are conveyed laterally from one set of rails to another; usually done by capstan man g.v.; obsolescent.

truckman; a goods porter g.v. who transports goods from one part of goods platform to another on a hand-truck.

van attendant, van washer, see goods brake van cleaner.

van setter; moves drays, by horse if necessary, along goods platforms at night so that they can be loaded in readiness for carriers (719) g.v. to take out on arrival at depôt, and, if placed, loaded drays to facilitate manipulation by carters and to avoid delay in starting delivery round; cf. van setter (720).

wagon and cattle pen cleaner; a goods porter g.v. who washes out and lime washes cattle wagons and pens; cf. disinfecter.

wagon dresser; a loader g.v. or, at small depôt, a goods porter g.v. who trims coal on loaded wagons to prevent its falling off when truck is in motion; obsolescent.

wagon unloader; a goods porter g.v. who unloads goods from trucks in railway company's warehouses.

weighbridge man; weighbridge porter; operates weighbridge; calls out weights to weighbridge clerk (939) g.v. or records weights himself.

weigher, weighman, see scalesman.

welcher, excess luggage; storage weigher, see excess luggage collector.

yardman, see porter, yard.

700—OTHER RAILWAY SERVANTS (not elsewhere enumerated)

ash boy, lad; a shed boy g.v. engaged as ash filler g.v. or assisting ash filler.

ash filler, ash loader, ash man, ash pit labourer, ash pit man; ash cleaner; shovels ashes out of ash pits, in engine shed and yard, on to sides

of pits and thence into wagons ready for removal; also removes grease and dirt from engine pits; in small yards work done by fire dropper g.v.

ashpan man, ashpan raker, see fire dropper.

axle box attendant, axle box cleaner; examines axle boxes, cleans them, and, when necessary, fills or orders to be filled with grease, etc.; reports if axle has been dangerously overheated.

axle oiler, see greaser.

bar boy (engine shed); firebar lad; a shed boy g.v. who assists bar men g.v. in an engine shed or who does work of bar man.

bar man, bar layer, bar setter, fire bar man; examines fire bars, cooled down, after removal from engine fire grates by fire dropper g.v.; replaces those defective with new bars.

boiler filler, see steam raiser.

brasser; a cleaner g.v. whose work is confined to cleaning and polishing brasswork, i.e. handles, etc., of passenger coaches.

brusher, tube, see cleaner, tube.

call boy, caller, caller-up; staff caller; knocks-up staff, e.g. drivers and firemen (701), guards (702) g.v., usually at their houses, in time for their turn for duty as laid down in depot shed, etc., roster; must receive answering call from each man knocked up; sometimes specifically designated, e.g. guard caller; graded as porter (703) g.v. attached to stations, cf. caller (704).

carriage lampman, carriage lighter; is responsible for lighting railway carriage oil or gas lamps, opening roof shutters, applying torch, etc., or operates switch in electric lighting.

carriage filler; an ash filler g.v. who sorts out from ashes good and useful coal and half-burned cinders for reuse, using a hand sieve or automatic riddling screen.

cleaner, boiler, see washer, boiler; cf. boiler scaler (852).

cleaner, carriage, see washer, carriage.

cleaner, fire, see fire dropper.

cleaner, pit, see ash filler.

teleman, road and yard; a labourer who sweeps all roads and yard areas in and around railway depôt or station.

cleaner, tube; tube brusher, tube runner, tube wiper; removes plate from front of engine; cleans tubes which pass through boiler from fire box to smoke box, by working rod from smoke box end to fire box end, thus removing soot and giving fire free draught.

coaler, coal filler, coal man; fuel man; shovels coal from coal stage or from trucks into engine tender; is responsible for proper packing of coal and ensuring that tender contains required amount of coal for journey.

coal picker; collects, with rake and shovel, pieces of coal which have fallen on to permanent way from wagons at places where coal is handled.

coal stacker; a shed labourer g.v. who piles up stores of coal at a railway locomotive depôt by building up with walls of large coal; marks with whitewash brush to prevent pilfering.

constable, railway constable; policeman, railway policeman; a sworn-in policeman, employed by railway company, who keeps order in a railway station and assists in marshalling of queues of passengers in booking hall; sometimes collects tickets.

control reporter; reports to controller (700) g.v., chiefly by telephone, notifying him of the number of goods, wagons, etc., required within a specified area; similarly is in touch with goods depôts, locomotive sheds, etc. drawer, fire, see fire dropper.

enquiry office attendant; train information officer; answers enquiries about passengers about train services, fares, connections, etc., at enquiry office of railway station where copies of all timetables, regulations, etc., are kept.

examiner, brakes; examines brakes of goods wagons and passenger coaches in marshalling yards and sidings, to ensure that they are in working order; reports defects for repair; cf. examiner, carriage.

examiner, carriage; examines train wheels, couplings, brakes, steam heating apparatus, lighting, and train generally, either in station (on road or at terminus) or at depot; reports damage to carriages or trucks and arranges for repair; cf. examiner, brake.

examiner, shoe (electric railway); examines contact shoes which collect current from live rail; ensures that perfect contact with rail is maintained, adjusts, as necessary, by spanner, etc.; sometimes done by motor examiner (electric railway) (308) g.v.

examiner, tool; engine tool examiner, see tool man.

examiner, wheel, fagger, wheel fagger; tests soundness of wheels of passenger coaches during halt at a station, or of goods wagons in a yard or siding, by tapping edges of wheels with long-handled steel hammers; reports immediately if a wheel sounds cracked, so that coach or wagon may be removed from train; also fags axle boxes for heated bearings.

firebar lad, see bar boy (engine shed).

fire carrier, fire lad, see fire lighter.

fire dropper; ash pen man, ash pen roller, fire cleaner, fire dropper; drops live fire by removing loosely fitting slotted bars from fire box and takes ashes and clivings from fire box into ash pit with long metal rake, on arrival of engine at shed after journey, in small sheds also does work of ash filler g.v.; on some railways work done by stoker and occasionally by engine cleaner (701) g.v.

fire lighters; fire carrier, fire lad, fire loader, fire lighter; carries live coals from fire hearth in shed to engine fire box; cleans fire with hand rake periodically; also burns brightly; in small sheds also does work of steam raise g.v.

foreman, carriage shed; carriage foreman, carriage stock foreman; directs and controls carriage cleaners g.v., repairers and other workers at carriage sidings or shed.

fuel boy; a shed boy g.v. employed as coal filler g.v.

fuel man, see cleaner.

gas filler; gas man; fills gas tanks of railway carriages in a siding, or in platform of engine station, by means of flexible piping from gas branch supplies at various points.

gas filler, oil, or for gas filler.

gas foreman; in charge of gas fillers g.v. who work on a siding or station platform; ensures speedy filling so that trains are run to time scheduled.

gas man, see gas filler.

gland packer; packs glands of steam regulator valves and steam valves on engine with greased hemp or asbestos packing to make steam joints steam-tight or water-tight; cf. gland packer (278).

greaser, carriage greaser, wagon greaser; oile oiler; fills axle boxes of rolling stock with lubricating oil or grease as required.

kindler, see fire lighter.

labeller, coal; a track labeller (706) g.v. labelling coal trucks in coal siding ready for sending forward to coal merchants.

ladies' waiting room attendant; in charge of ladies' waiting room and lavatories at passenger station; ensures cleanliness; issues towels, soap, etc.; collects fees and hands to station master (307), to cashier (308), or to leading ladies' waiting room attendant g.v.

leading ladies' waiting room attendant; supervises ladies' waiting room attendants g.v. at large passenger stations; ensures cleanliness of lavatories, renewal of towels, etc., and sometimes also collects fees.

lighter-up, see fire lighter.

police man, railway policeman (not at level crossing), see constable.

point cleaner, point oiler; attends to oiling and cleaning of points on section of railway track, or in sidings or yards.

runner, tube, see cleaner, tube.

sand dryer, sand man; shovels sand from railway trucks into stove or oven in which it is dried, attends to furnace fires during drying; shovels dry sand into bins for use by engine men (701) g.v., in shed or depot; loads dry sand into trucks for removal to small depots having no sand fire.

sergeant (railway police); is in charge of a section of railway police at station or depot.

shed boy; general term for boy under age 18 employed in railway engine shed as ash filler, coal filler, or assisting ash filler, coal filler or bar man g.v., or in other general shed work, cf. ash boy, fuel boy, bar boy.

shed charge man; in charge of a gang of shed labourers g.v. under direction of shed foreman (700); cf. charge man engine cleaner (701).

shed labourer, loco. shed labourer; general terms for any man engaged in labouring work, e.g. ash filler g.v., in railway engine shed.

shear marker; a shear collector (705) g.v. who marks and writes names and numbers on tarpaulin wagon sheets, with brush and paint, and stencils.

slip lad; assists slip checker (706) g.v. by collecting slips, etc.

smoke box lad; removes soot from smoke-boxes of locomotives in an engine shed by scraping and sweeping down; obsolete; work now done by fire dropper or by tube cleaner g.v.

staff caller, see call boy.

steam raiser, boiler filler; is responsible for seeing that fire is lighted under boiler and for filling boiler with water before engine leaves shed; also sees that proper head of steam has been raised by the time driver (701) g.v. takes charge; in small sheds also does work of fire lighter g.v.

sweeper, tube, see cleaner, tube.

swing bridge man; in charge of swing bridge over river or canal, opens bridge to allow water traffic to pass, and closes, when required, to allow train or locomotive to cross; is responsible for securing that section of rails on bridge is in exact alignment with running lines on each side before allowing train or engine to pass.

tapper, wheel tapper, see examiner, wheel.

tool man (engine); engine tool examiner, tool examiner; in charge of tool store and responsible for stock of tools; issues new fire irons, shovels, buckets, hammers, etc., required by engine men (701) g.v. in exchange for damaged or defective tools; records issues and receipts of tools, requisitions tools from appropriate departments; receives key of engine toolshed, containing spanners, oil can, etc., from fireman (701) g.v. after journey and is responsible for its custody until again required.

train information attendant, train information officer, see enquiry officer attendant.

washer, boiler; boiler washer-out; boiler cleaner; runs off water from boiler by removing plugs; floods boiler with clean water to wash it out; removes scales accumulated round plugs by working iron rods to and fro; re-buffs boiler in readiness for next journey.

washer, carriage; carriage cleaner; washes down outside paint of carriages in sidings and passenger yards; sweeps, dusts, cleans windows and brasswork of rolling stock after journey, and generally prepares carriages for next journey.

Sub-Order 2.—Road Transport Workers.

710.—OMNIBUS AND TRAMWAY PROPRIETORS AND MANAGERS.

general manager (omnibus company). omnibus manager; is responsible to directors for administrative control of an omnibus company's working.

general manager (tramway); tramway manager; is in general control of a tramway system, and is responsible to directors or to local authority for efficiency of service.

omnibus manager, see general manager (omnibus company).

superintendent (omnibus), see traffic manager.

traffic manager, traffic superintendent (tramways or omnibus); superintendent (omnibus); is responsible to general manager g.v. for organisation of traffic side of undertaking; controls operating staff, determines and approves time tables, routes, etc., recruits omnibus drivers (720), tram drivers (722), conductors (724), ticket inspectors (714) g.v., and supervises and advises upon establishment of depots to house vehicles; recommends to general manager purchase of new cars in accordance with traffic requirements.

tramway manager, see general manager (tramways).

711.—LIVERY STABLE PROPRIETORS AND MANAGERS.

cab proprietor, job master, livery stable keeper, livery stable proprietor, brake proprietor, carriage master, carriage proprietor, coach master, coach proprietor, fly master, fly proprietor, hack master, wagonette proprietor; hires out horse-drawn vehicles; may drive vehicle himself; may also own petrol driven vehicles for hire; duties as for livery stable manager g.v.

horse lather, horse proprietor; owns horses which he lets out for riding or for draught purposes, by day, week or month.

horse repository keeper; keeps stables to which horses may be brought for sale; arranges sale by private treaty or by auction, on commission; stables private owners' horses.

livery stable manager; men manager, posting yard manager; in charge of livery stables and responsible to cab proprietor or livery stable keeper g.v. for control of staff, safe custody of horses and for safe storage of fodder, litter, etc., used in stables; supervises grooms and stablemen (725) g.v.; ensures that horses are regularly fed and exercised, stalls properly bedded and cleaned; examines sick horses and either (sample ailments) gives medicine himself or calls in veterinary surgeon; lets stabling accommodation; sometimes arranges terms and collects payments for employer.

mews manager, see livery stable manager.

posting master; stage air proprietor, stage carriage proprietor; lets out horses and vehicles for conveyance of passengers and goods in districts where there is no railway communication.

posting yard manager, see livery stable manager.

stage car proprietor, stage carriage proprietor, see posting master.

712.—MOTOR GARAGE PROPRIETORS AND MANAGERS.

motor cab proprietor, motor charabanc proprietor; an owner of motor cabs, motor coaches, etc., which he lets out on hire.

motor garage manager; is responsible to motor garage proprietor *q.v.* for control of motor garage and of staff employed thereat; supervises storage arrangements for private owners cars, letting-out of cars on hire, and execution of repairs to vehicles; in charge of sales, *i.e.* petrol, spares, etc., personally keeps account books, collects monies, pays wages, etc., and renders accounts to proprietor.

motor garage proprietor; owns a motor garage, in which he carries on one or all of the following businesses:

- (i) executing repairs to motor vehicles; (ii) letting out cars on hire; (iii) storage of cars for private owners.

motor hire, motor jobmaster; owns motor vehicles (busses, taxicabs, private cars, etc.) and lets them out on hire, with or without drivers, by day, week, month, etc., at agreed rates, to commercial or private users, *e.g.* (taxi-cabs) to taxi-cab drivers (720) *q.v.*

713.—HAULAGE AND CARTAGE CONTRACTORS AND MANAGERS; MASTER CARTER.

bonded carman, bonded carrier; a cartage contractor *q.v.* licensed by H.M. Customs to cart tobacco, wines, spirits and other dutiable articles, duty being unpaid, from dock, quay or warehouse into bonded warehouse, or from bonded warehouse to ship for re-export; *cf.* bonded carman (719).

cartage assistant superintendent (railway); assists cartage superintendent (railway) *q.v.* and, in his absence, deputises; is responsible for time-keeping of carters (719) *q.v.* and arranges reliefs in cases of absence; supervises cartage traffic at station or depot to prevent delays or congestion.

cartage contractor, carting contractor; master carman; enters into contracts for supply of carts, borses, motor vehicles, men, etc., for cartage purposes.

cartage superintendent (railway); has charge of cartage arrangements at railway station or depot, controls staff, arranges programme of work, etc.

carting agent; a cartage contractor *q.v.* or sub-contractor who provides horses and carts or motor vehicles for transport of materials, etc., at fixed rates or by contract; either men on borses and carts or motor vehicles or hires them from cartage contractor; sometimes sub-lets contracts for carting to other cartage contractors, or receives commission from them on business introduced.

cart proprietor; master carter; owns carts and horses, which he lets out on hire; may be also carting agent or carting contractor *q.v.*

cattle float proprietor; an owner of cattle floats (two-wheeled vehicles specially constructed for conveyance of cattle) which he lets on hire.

dust contractor; a cartage contractor *q.v.* who contracts with local authorities for removal and disposal of rubbish.

forwarding agent; a proprietor of a business for collection of parcels and goods in a defined area for a larger carrier, *e.g.* a railway or steamship company.

furniture remover, removal contractor; undertakes removal of furniture to any part by means of his own conveyance, or by rail.

haulage contractor (employee); enters into contracts for performance of haulage of any description.

mail cart contractor, mail contractor; enters into contract with H.M. Government for conveyance of mails, from place to place, by means of horse-drawn or motor vehicles.

master carman; (i) supervises and directs work of carmen, (719) *q.v.* in employ of railway company or other common carriers, (ii) is cartage contractor.

master carter, see cart proprietor.

railway agent; (i) see railway carting agent; (ii) see railway parcel agent.

railway carting agent, railway carrier (employee); railway agent; undertakes, usually under contract, cartage for a railway company in a defined area.

railway parcel agent; railway agent; undertakes, usually under contract, delivery and collection of parcels for a railway company in a defined area.

removal contractor, see furniture remover.

team driver (own account), team owner; owns team of cart horses, with which he undertakes haulage jobs.

traffic manager, transport manager (for commercial firm); controls all traffic arrangements and transport business in connection with business of a private firm; is responsible for care of vehicles, horses, etc.; supervises and directs work of carters, carmen (719) *q.v.*, boys, etc.; sees that railway consignments notes are correctly made out, and sent with goods.

transport manager; has charge of a transport business on behalf of proprietors, to whom he is responsible for execution of orders, control of staff, supervision of accounts, etc.

truck proprietor; owns horse-drawn or hand trucks, which he lets out on hire.

van proprietor, see cart proprietor.

714.—INSPECTORS AND SUPERINTENDENTS.

accident inspector; enquiry officer; carries out preliminary enquiries on behalf of omnibus, tramway or other undertaking, where accidents to passengers, less or damage to passengers' property, damage to vehicles through collision with company's omnibuses, trams, etc., are reported; sometimes visits scene of accident, makes enquiries of eye witnesses, inspects damaged vehicles, etc., and interviews persons injured, etc., furnishes reports to claims superintendent *q.v.* setting out result of enquiries, expressing opinions as to culpability, or otherwise, of company's servants, and making recommendations as to lines upon which a settlement should be effected.

assistant district inspector, assistant divisional inspector; (i) see assistant district permanent way inspector; (ii) see assistant district traffic inspector.

assistant district permanent way inspector, assistant divisional permanent way inspector; assistant district inspector, divisional district inspector; assists and acts as deputy to district permanent way inspector *q.v.*; inspects tramway tracks in specified districts, reported as defective, and recommends necessary repairs; supervises repair gangs and pays periodic visits to portions of track under repair and surprise visits to night conduit cleaners (729) *q.v.* to ensure efficient working.

assistant district traffic inspector, assistant divisional traffic inspector; assistant district inspector, assistant divisional inspector; assists and acts as deputy to district traffic inspector *q.v.*; supervises traffic regulators *q.v.*; investigates their reports regarding congestion or delays at traffic points and takes necessary steps to remedy defects; is responsible for allocation of vehicles, *e.g.* for football matches, and for preparing special traffic plans for such occasions.

assistant regulator, assistant traffic regulator (tramways, etc.); assists traffic regulator *q.v.* in control of tramway or omnibus services; is stationed at selected traffic points to report upon traffic congestion, delays or late time-keeping, or is stationed at termini, etc., during rush hours to direct and assist conductors (724) *q.v.*; supervises loading and unloading of special cars running on public holidays, for football matches, etc.

trolley inspector, boom inspector (tramways); trolley attendant, trolley car superintendent, or superintendent *q.v.* for periodically inspecting trolleys and trolley bars or booms, at tramway depot, to ensure insulation and perfect running on overhead cable; makes minor adjustments and reports serious defects for repair.

brake inspector, brake attendant, brake examiner (tramways); inspects brakes and brake attachments on trams, at depot every night, to ensure that they are in good working condition; makes minor adjustments on the spot; where more extensive repair or replacement is necessary, reports cars for temporary withdrawal from service.

brake superintendent (tramways); is responsible to rolling stock superintendent *q.v.* for ensuring that brake equipment of trams is maintained in good working condition; supervises brake inspectors *q.v.*; examines and furnishes reports upon brake appliance improvements and inventions used by other undertakings.

car examiner, car inspector (tramways); is responsible to depot superintendent *q.v.* for routine examination of cars on arrival at depot after journeys, applies driver's controls, to test condition, taps wheels and axles with hammer to detect fractures; lubricates bearings, etc.; reports defects for repair to depot foreman (716) or to depot superintendent *q.v.*

chief inspector; controls and supervises work of inspecting staffs on tramway or omnibus systems.

claims inspector; damages assessor; an officer, possessing technical knowledge, who follows up cases reported upon by inspectors *q.v.* where a damage claim has been lodged; examines damaged vehicle or property and reports, giving estimate of damage, to claims superintendent *q.v.*

claims superintendent (tramways, omnibus); in charge of claims department of tramway or omnibus undertaking; is responsible to general manager (710) *q.v.* for supervision of claims inspectors *q.v.*; in consultation, if necessary with company solicitor, settles claims lodged in respect of personal loss or injury by passengers, or of damage, injury, etc., to persons or vehicles through collision or negligence of company's servants.

damages assessor, see claims inspector.

depot inspector (tramways); is responsible to traffic manager (710) *q.v.* for periodically examining tramway depots; suggests organisation improvements to depot foreman (716) or to depot superintendent *q.v.*; allocates cars to depots in accordance with traffic requirements as indicated by car-load statistics; ensures that car examination and cleaning arrangements at depots are efficient.

depot superintendent, district depot superintendent; is in charge of a tramway or omnibus depot, is responsible to traffic manager (710) *q.v.* for control of staff, arranging roster of drivers and conductors' duties as governed by timetables, traffic requirements, etc.; ensures efficient work of car cleaners (730), car examiners *q.v.*; sometimes also controls repair staff *e.g.* fitters (716), electricians (307), where staff not large enough for employment of repairs depot superintendent *q.v.*

district inspector (omnibus), *see* divisional inspector.
 district inspector (trams): (i) *see* district permanent way inspector; (ii) *see* district traffic inspector.

district permanent way inspector, divisional permanent way inspector (trams), district inspector (trams): is responsible to permanent way superintendent *q.v.* for maintenance of section of tramway track in specified district; issues instructions for track repairs and makes recommendations for relaying, if necessary; district inspectors permanent way staff at depots within his district.

district traffic inspector, divisional traffic inspector (trams): district inspector (trams): is responsible to district traffic superintendent *q.v.* for inspection of traffic arrangements in a specified district; recommends to him, in accordance with traffic requirements, augmentation, etc., of certain routes; supervises traffic regulators *q.v.* and issues reports to assistant district traffic inspectors *q.v.* to investigate reports of congestion, etc.

district traffic superintendent, divisional traffic superintendent: is responsible to traffic manager (710) *q.v.* for general supervision of traffic arrangements in a specified area; allocates duties of district traffic inspectors, assistant district traffic inspectors, traffic regulators, assistant regulators *q.v.*; makes arrangements for meeting traffic requirements, distributing vehicles, applying to headquarters for additional quota, etc., as necessary.

divisional inspector (omnibus): district inspector: is responsible for supervision of working of service in a defined division or district.

enquiry officer, *see* accident inspector.

horse inspector; inspector, at stabling depot, horses belonging to omnibus or tramway services, large carting contractors, railway companies, etc.: either before journeys or upon horses' return to depot; inspects horses and for work and prescribes treatment, medicines and food in case of simple ailments; keeps sick horses under observation and orders veterinary treatment where necessary; is sometimes responsible for purchase of new horses and sale of horses unfit for further service.

horse superintendent (not canal); is in charge of horse department of large carriers' business, omnibus or tramway services, and is responsible for control of stable staff, and for welfare of horses.

inspector of patrols (Automobile Association): is in charge of Automobile Association patrols (729) *q.v.* in a certain area, and allocates and superintends their work.

juniper (plough), *see* ticket examiner.

loading observer (omnibus): keeps watch at different points on omnibus routes to see that no overloading takes place; reports any cases that he sees.

loading observer (trams): keeps one particular tramway route under observation; informs authorities as to loading, i.e. number of passengers carried, on that route, and recommends increase or reduction of service, as traffic demands.

material inspector (trams): is responsible to rolling stock superintendent or to permanent way superintendent *q.v.* for examining and testing, before purchase, cars and materials used in tramway services, e.g. rails, spare parts, lubricants; often visits contractors' premises for this purpose, but, in large undertakings, work may be subdivided.

motor car inspector; inspects cars in large motor garages, and sees that they are kept fit for service.

motor inspector, motor examiner (trams): periodically examines tramcar electric motors in a depot, sending them to be overhauled when necessary.

night inspector (omnibus, trams): is in control of traffic department of depot at night; allocates duties to conductors; superintends cab and ticket department, etc.

omnibus inspector; performs, according to turn of duty (which is usually changed weekly), one or other of duties devolving on omnibus inspectors, e.g. ticket inspector, regulator *q.v.*

output assistant (omnibus); books drivers (723) and conductors (724) *q.v.* on and off duty; gives out tickets, boxes, etc., to conductors. parcels superintendent (trams): is in charge of parcels traffic department of tramway undertaking; draws up time-tables for collection and delivery of parcels traffic on tramway routes, generally supervises staff at head parcel office and organises system of district parcels receiving offices; is responsible for collection of charges, payment of fees to collecting agents, payment of wages and for financial side of parcel traffic generally.

permanent way engineer, *see* permanent way superintendent.

permanent way inspector (trams): is attached to district tramway depot and reports to district permanent way inspector *q.v.* upon condition of tramway track in specified area; investigates complaints of drivers (723) *q.v.*, examines state of lines at junctions, recommends repair, etc., supervises repair and relaying gang and reports progress.

permanent way superintendent (trams): permanent way engineer; is responsible to general manager (710) *q.v.* of tramway undertaking for maintenance of permanent way in good condition; issues instructions to district permanent way inspectors *q.v.* as to repairs or relaying track; is in general control of staff of permanent way department and selects higher officials, e.g. district permanent way inspectors, material inspectors *q.v.*

plough inspector, plough examiner; examines ploughs (instruments attached to underframe of trams for pecking up electric current from cables when conduit track system used); makes minor adjustments where necessary; reports to depot superintendent *q.v.* defects of ploughs needing workshop repair, in order that car may be withdrawn from service.

private inspector (omnibus); supervises and controls work of private checkers (729) *q.v.*

punch inspector, punch shop superintendent; checks perforation of ticket punches handed in by omnibus or tram conductors (724) *q.v.* at depots, and examines to see that tickets in working order; himself makes minor adjustments, and sends seriously defective punches to punch shop for repair or renewal of parts.

railway carriage inspector; is responsible to carriage superintendent (713) *q.v.* for efficient working of carriage stock at goods depots, docks, etc. issues instructions regarding correct loading of vehicles, etc., to railway carriage foreman (716), carters, van drivers (719) *q.v.* etc.

regulator, traffic regulator; timekeeper; regulates traffic at busy junctions, centres, or termini, and sees that all tramcars or omnibuses start at scheduled times.

repairs depot superintendent (trams); a technical officer who controls staff of repairers and other workers in repairs depot; is responsible to rolling stock superintendent *q.v.* for efficient repairing of vehicles and for work of

car examiner, brake inspector *q.v.*, etc.; maintains adequate stock of spare parts, tools, etc.

road inspector (omnibus, tramway services); watches (in anti) working of tramcar or omnibus systems within a defined area; notes irregularities in work of drivers and conductors, points out minor faults on spot and reports serious irregularities to headquarters.

rolling stock superintendent; is responsible to general manager (710) *q.v.* for efficient control of department which is charged with purchase and maintenance of rolling stock; orders vehicles of approved specifications as authorised by directors, or (municipal undertakings) by tramway committee, and is responsible for examination before acceptance, in general charge of mechanical equipment at depots wherein vehicles are based, cleaned, examined, repaired; provides efficient inspection and overhaul of vehicles; selects higher officials, e.g. brake superintendent, material inspector *q.v.* in smaller undertakings, is sometimes also responsible for maintenance of electrical equipment of rolling stock.

stores superintendent; is responsible for working of stores department, and for control of staff therein; arranges for purchase of stores.

superintendent (cab, ticket and punch department); is responsible to general manager (710) *q.v.* for proper keeping of conductors' (724) *q.v.* cab ticket and punch records, and payment of cash into bank; controls staff who receive and check ticket boxes and cash handed in by conductors; reports serious cash discrepancies to traffic manager (710) *q.v.* or to general manager for disciplinary action, or, for small amounts, obtains refund from conductors.

ticket examiner, ticket inspector; jumps; searches omnibuses of tramcars to examine passengers' tickets and conductors' records to ensure that conductors are working satisfactorily, and that passengers are not travelling beyond stages for which they have paid.

timekeeper, *see* regulator.

time list maker (omnibus); an omnibus inspector *q.v.* who prepares lists showing times of omnibus services from particular garage, and names of drivers (720) and conductors (724) *q.v.* allotted to each omnibus.

traffic adviser; traffic development superintendent; studies passenger statistics of undertaking and advises traffic manager (710) *q.v.* as to extensions, curtailment, or alteration of services to meet varying needs of public, arising from growth of population, development of new districts, etc.; suggests innovations, e.g. cheap fares, extension of routes; is responsible for advertising facilities (punches, parcels, etc.) offered by undertaking.

traffic assistant (trams); assists traffic manager (710) *q.v.* in indoor or outdoor routine duties; generally in charge of special section of work; sometimes specifically designated, e.g. outdoor traffic assistant.

traffic development superintendent, *see* traffic adviser.

traffic inspector; inspects tramway service traffic, and makes routine reports to his department; inspects passengers' tickets, and checks conductors' tickets and ticket sheets; ascertains that conductors are observing regulations as to clothing, discipline, etc.

trams: inspector; general term for an official who supervises work in one section or another of a tramway service, including ticket inspector, road inspector *q.v.* tramways superintendent; has charge and control of one section or another of a tramway service, e.g. traffic superintendent (719), permanent way superintendent, works superintendent *q.v.*

trolley attendant, trolley examiner, see bar inspector (tramways).

works superintendent; controls and directs works of construction or repair on tramway system.

yard inspector; supervises parking of vehicles, cleaning, etc., in tramway depôt yards or omnibus garages, despatches trams from depôts at scheduled times, and notes when cars return.

715.—HORSE FOREMEN.

horse foreman, farman, horse-keeper; horse manager, stable foreman; in charge of horses and stables of undertakings employing many horses; allot duties to and supervises work of groom, stable boys (725), and also drivers, carmen (719) *q.v.*, etc., where such groom and feed their own horses; looks after sick horses under direction of veterinary surgeon.

horse foreman, deputy; assists horse foreman *q.v.* and takes his place if he is absent.

horse foreman, trace; a horse foreman *q.v.* in charge of trace-horse drivers, to whom he allot duties.

horse manager, stable foreman, see horse foreman.

716.—OTHER ROAD TRANSPORT FOREMEN.

charge hand (tramways); general term applied to any worker placed in charge of other workers, *e.g.* ganger, shed foreman *q.v.*

foreman, carting; in charge of cartage depôt from which carts or vans are sent out on journey; arranges rosters of duties of drivers (719) *q.v.* to suit orders in hand, ensures punctuality, etc.; himself attends to sick horses or calls in veterinary surgeon; in small business, is sometimes also responsible for supervision of stableman (726) *q.v.* and for general cleanliness of vehicle, depôt and approaches thereto.

foreman, sanduit cleaner; directs and supervises conduit cleaning staff attached to district depôt of tramway undertaking employing conduit system; prepares duties roster of conduit cleaners (729) *q.v.* for district; periodically pays visits (usually at night) to section of track being cleaned to ensure speedy and efficient progress and to prevent traffic being impeded.

foreman, depot; in charge of tramway or omnibus depôt where staff employed is not large enough to justify services of depôt superintendent (714) *q.v.*; or for depôt superintendent.

foreman (furniture removals); has charge of removals of furniture, carried out with aid of small body of assistants, and furniture removal van or vans (pantechnicons).

foreman, garage; motor garage foreman; is responsible for care of cars and removal of staff in motor garage; allot duties to drivers (720) *q.v.*; superintends cleaning and repairs; arranges supplies of spirit, oil and accessories.

foreman (omnibus service); directs and supervises operating staff, including washers and cleaners (729) *q.v.*, at omnibus depôt or entire staff (including coachmen) in small garage; arranges weekly roster of omnibus drivers (720), conductors (724) *q.v.*, arranges for spare drivers, etc., and ensures that vehicles start at scheduled times, petrol tanks filled, etc.

foreman, platform (carriers); directs work of checkers (711), loaders (720) *q.v.*, etc., on platform of general carriers' depôt; allocates duties and organises method of loading drays, etc., to ensure prompt handling and despatch of goods.

foreman, railway cartage; is responsible to goods agent (700) *q.v.* for allocation of duties to carriers (719) *q.v.*, attached to railway goods depôt, for time-keeping, etc., for maintaining supply of men and vehicles, and for prompt handling and despatch of goods.

foreman, shed (tramways); is in charge of a shed of a depôt; controls car cleaning and repairing staff, etc.; is responsible to management that general daily and nightly routine is efficiently performed.

foreman, yard; is responsible for parking and setting of vehicles in cartage yard or omnibus company's yard; has charge of setters, cleaners, loaders, etc. (729) *q.v.*; is responsible for allocation of duties, time-keeping and for cleanliness of yard and vehicles.

fixganger (tramways); controls and directs body of labourers working on repairs of permanent way of tramway system.

717.—CHECKERS (Road Transport Workers).

caller-off (carriers); calls off to carriers' checker *q.v.* particulars and weights of goods being loaded or unloaded in common carriers' depôt.

carrier's checker, cartage checker; checks addresses, weights, etc., of goods handled in common carriers' depôt.

718.—COACHMEN AND DRIVERS OF COACHES, CARRIAGES AND HORSE OMNIBUSES.

cabman (horse), see driver, cab (horse).

coachman, see driver, carriage; sometimes specifically designated *e.g.* domestic coachman (private service), traveller's coachman, undertaker's coachman.

driver, ambulance (horse ambulance); drives a horse-drawn ambulance for a hospital, local authority, or Red Cross Society, etc.; besides normal duties of a carriage driver *q.v.* generally assists in carrying patients into and out of ambulance.

driver, cab (horse); cabman (horse), *q.v.*; drives horse-drawn cab for public hire under licence from local authority.

driver, cartage driver; coachman; drives horse-drawn cartage let by lively stable proprietor, or owned privately, is often responsible for care of horse in stable; may also clean cartage when not done by stable boy (725); sometimes specifically designated, *e.g.* omnibus ('bus) driver, hackney carriage driver, horse omnibus driver, pony carriage driver, trap driver, traveller's driver, wagon, etc. driver.

driver, coach; stage coach driver, stage car driver; drives coach drawn by two or more horses, for a private owner, or for carrying passengers, luggage, and, perhaps, mails, in a district where there is no railway communication.

driver, licensed (unlicensed, horse); drives any horse-drawn vehicle licensed to ply for hire.

flyman, see driver, cab (horse).

gig boy, see trap lad.

outgrid; a servant who rides on horse-back, ahead or at side of horse-drawn cartage or coach, generally on ceremonial occasions.

postillion, post-boy, rides near horse of pair of horses drawing coach or cartage where no coachman is used, controlling both horses, generally on ceremonial occasions.

townsby (horse driver); a coachman or carriage driver *q.v.* who drives cartage used by commercial traveller to carry himself and samples on his rounds.

trap lad, trap youth; gig boy; accompanies owner of horse and trap, and minds them in absence of owner; drives trap if required, traveller's assistant, traveller's boy; a traveller's coachman *q.v.* who carries samples for traveller to and from cartage, unless and then up packages of samples, and generally assists traveller.

719.—DRIVERS OF LORRIES, WAGONS, VANS AND CARTS (HORSE). (Compare similar occupational terms in connection with motor-driven vehicles in Code 720.)

bonded cartman; a cartman *q.v.* employed by cartage contractor (713) *q.v.* in conveying dutiable goods from/to bonded warehouse, accompanied by customs watcher; cf. bonded cartman (713).

cartman, leader (Yorkshire); drives horse-drawn vehicle (usually in towns) collecting or delivering goods, for railway company, firm of carriers, or other business firm, recovers horse(s) from stableman (725) *q.v.*, harnesses to vehicle and returns horse(s) on completion of duty; sometimes assists porter (735) *q.v.* in loading, etc., vehicle or himself does portering; is responsible for safe custody of horse and vehicle and for safe delivery of load; obtains signatures for goods delivered and returns signed delivery sheet to yard foreman (716) *q.v.* on return to depôt.

carrier (country); owner of horse (or horses) and cart or van, in which he conveys passengers, goods and produce from villages along a certain route to a market town; cf. transfer.

carrier, market (not porter); a cartman or currier *q.v.* who drives cart used for conveyance of produce to market, or from market to retail.

carrier, railway; a carrier *q.v.* or a lorry driver *q.v.* employed, either by railway company or a local contractor, to collect and distribute goods in area served by railway station.

carrier, rubbish; rubbish carrier; a carrier *q.v.* employed, by local authority or private firm, in carting refuse or rubbish to a destructor, rubbish dump or refuse tip; usually loads or assists in loading his own cart and empties load at end of journey.

carrier, water; water carrier; (i) a carrier *q.v.* who drives vehicle containing tank for carrying water in bulk, till tank, by means of hand-pump or syphon, at source of supply and runs of water, by means of hand-pump, etc., at destination; (ii) see driver, water cart.

cart, cart driver, cartman; leader (Yorkshire); drives carts (usually in rural districts) belonging to cartage and haulage contractors, manufacturers, corporations, producers, etc.; is responsible for safe delivery of goods carted and (often) for care of horse.

carrier, duff; duff amplifier, duff filler; works horse groomed at a coal mine, loading and emptying wagons of "duff" (small coal) on to duff hoppers or into stokehold at steam boilers.

tearier's runner; on behalf of cartage contractor (713) *q.v.*, visits place where cartage operations performed and expedites loading and unloading of vehicles, reports delays, etc., to his firm; sometimes also inspects goods to be carted and estimates number of men and vehicles required for job, at quote for contract.

cattle driver; cattle foot driver; a carrier *q.v.* who drives a foot or crank axled cart with low body in which are transported cattle, horses or other animals; assists in loading and unloading foot, secures animals in front with halter, rope and netting to prevent injury in transit.

collector, bag, see collector, sack.
 collector, sack; a carman g.v. who drives a specially built cart or dray used for collecting empty sacks (brewer's, etc.) from customers; cf. motor steam dray driver (721).
 collector, fat; a carman g.v. who drives cart in which he collects fat (for use in soap making, etc.) from hotels, restaurants, etc.

collector (milk); a van or lorry driver g.v. who collects milk from individuals or groups of farmers and takes it to a central depot or to a railway station.

collector, official; a carrier g.v. employed by firm of cattle official merchants in collecting and removing stable manure from pits in stable yards to railway goods yards, farms, etc.; usually fills own cart, using fork or shovel, and discharges load, at destination, into railway wagon or on to manure heap in field; usually also waters, feeds, etc., own horse.

collector, sack; bag collector; a carman g.v. who drives cart in which he collects empty sacks or bags from customers of his employer.

delivery man; van driver g.v. who delivers purchases to customers' addresses.

drayman; fat driver, rolley man, rully man, wherry driver, wherryman; drives a dray or wherry, a low flat vehicle for transporting heavy bulky material, e.g. beer barrels, stone blocks.

driver, cattle boat, see cattle boat.

driver, fat, see drayman.

driver, lorry (or lorry); lorry man, lorry men; drives a heavy four-wheeled vehicle known as a lorry, or, in the North of England, a lorry.
 driver, mail; mail cart driver, mail van driver; post cart driver; is employed by contractor to carry Royal Mail bags between railway stations and district or head post offices by means of horse-drawn vehicle; in rural areas, collects mail bags on the way from local post offices and conveys to railway station for conveyance by train.

driver, oil tank; drives a horse-drawn oil tank vehicle, usually as roundsman (716), supplying customers with oil or petrol as required, runs off oil from tank tap into measures and fills receptacles on customers' premises; records quantities supplied and usually collects cash payment; renders statement of transactions and pays in cash to cashier (509) upon return to depot.

driver, overhead wagon; tower wagon driver; drives horse-drawn wagon which carries a telescopic tower ladder used for repairing tramway trolley wires; (sometimes acts as labourer to electrician (807) or in depot when not on road).

driver, post cart, see driver, mail.

driver, tower wagon, see driver, overhead wagon.

driver, truck; trolley man, truck man; a carrier g.v. who drives horse-drawn trucks or trolleys, often on temporary light rails or tram lines; is usually employed in drawing trucks from one workshop to another in large works.

driver, van; ton man; drives a horse-drawn van used for collection and delivery of small goods; driver or carman; sometimes specifically designated, e.g. delivery van driver, mail van driver, parcels van driver.

driver, water cart; water carrier, water carrier; drives horse-drawn water cart used for sprinkling roads and flushing drains; fills water tanks at roadside pumps, and switches water flush on and off, as required, during driving.

driver, wherry, see drayman.

duff emptier, duff filler, see carrier, duff.

hauller (not in mines); drives horse-drawn vehicle used for haulage, either on his own account or for an employer.

higgler (carrier); a carrier of goods who also sells articles of all kinds for the best price he can get in the villages he visits.

leader; Yorkshire term; (i) see carrier; (ii) see carman; sometimes specifically designated, e.g. coal leader, timber leader.

lorry man, lorry man, see driver, lorry (or lorry).

porter carman, porter driver; a porter (706) g.v. specially detailed to perform duties of carman g.v.

rolley man, rully man, see drayman.

teamster, teamman, teamster; a carrier g.v. who drives a team of horses attached to a heavy dray, wain or timber cart, drawing a heavy load.

townman; drives horse and van, delivering goods from town shopkeepers to customers in countryside. often sells from van.

traveller (in Wales); a carrier g.v. travelling from village to market town conveying goods and passengers; may sometimes also sell goods.

trolleyman, truck man, see driver, truck.

van man, see driver, van; sometimes specifically designated, e.g. parcels van man, railway parcels van man, ticket vanman (tramway).

wagoner (not farm); drives a horse-drawn heavy four-wheeled vehicle (wagon), largely used for conveying produce or manufactured goods to market or railway station.
 wherryman, see drayman.

720.—DRIVERS OF MOTOR-CARS, OMNIBUSES, VANS AND LORRIES. (Compare similar occupational terms in connection with horse-drawn vehicles in Code 719.)

carrier (country); owner of a motor-van in which he conveys passengers, goods and produce from villages along a certain route to a market town.

chauffeur, chauffanneur; a motor-car driver g.v. usually in private service and wearing uniform; often employed part time in other duties, e.g. carrying messages, parcels, etc., or shopping for his employer, or as gardener or indoor servant.

chauffeur mechanic; a chauffeur g.v. with some knowledge of motor engineering, and able to undertake running repairs.

driver, ambulance (motor); drives motor ambulance for hospital, local authority, or Red Cross society, assists in carrying patients into and out of ambulance; is sometimes also required to keep watch and to answer calls for ambulance.

driver, cab (motor); motor cab driver; drives motor-propelled cab, for public hire, under licence from local authority; cf. driver, taxi-cab.
 driver, car driver (motor); motor car driver; drives light motor-propelled vehicle as distinguished from van, lorry, omnibus or motor coach; cleans and oils car; fills petrol tank; carries out minor adjustments of engine, transmission, etc.; changes tyres, and (if pneumatic) repairs them and pumps up when necessary.

driver, copper van (tramway); a motor driver g.v. who drives motor-van used by bronze coin distributor (729) g.v. on his rounds.

driver, motor driver; general terms applicable to any driver of motor-propelled vehicle, but more generally to drivers of heavier vehicles, e.g. vans, lorries, etc., used for commercial purposes; steers free course on road by turning steering wheel; controls power of engine by hand and foot levers; applies hand or foot brake in emergency; sometimes specifically designated, e.g. electric van driver, mail driver, mail van driver, lorry driver, motor lorry driver, motor wagon driver, petrol lorry driver,

motor van driver, van driver, motor wherry (dray) driver, motor sweeper (road) driver, oil tank driver.
 driver, motor char-a-banc; drives a motor char-a-banc (motor coach), licensed to carry a number of people (usually from 15 to 30), sometimes between regular stages, but more usually on special pleasure trips; sometimes also acts as conductor (724) g.v.

driver, motor relay; motor rully driver; drives motor relay (small motor vehicle) running on light railway or tramway.

driver, motor water-cart; drives water-cart, propelled by internal-combustion engine; waters a specified length of roadway, as directed by road foreman (564) g.v. or other official; controls strength and direction of jets of water; fills tank in water cart with hose from water main.

driver, omnibus driver (motor); motor omnibus driver; drives omnibus, propelled by internal-combustion engine, standing and stopping at specified points on the road and in obedience to bell-signals from the conductor; sometimes specifically designated, e.g. electric omnibus driver, petrol-electric omnibus driver.

driver, overhead wagon (motor); tower wagon driver (motor); as for driver, overhead wagon.

driver, owner (taxi); taxi-owner driver; a taxi-cab driver g.v. who owns (or hires on hire purchase system) cab which he drives.

driver, rail-less car or tram; drives electric vehicle along highways, to convey passengers, each vehicle pursuing free course, i.e. not on rails, and gathering current by trolley from a fixed overhead wire; as for motorcar (tramway) (722).

driver, taxi-cab; cab driver (motor) g.v. whose vehicle is fitted with a taximeter (an automatic apparatus which indicates mileage run and fares paid), hires from passengers for fixed daily charges or is employed at fixed weekly wage; stands with cab at recognized cab-rank, in public thoroughfare or at railway station, awaiting turn to be hired or drives slowly (crawls) along roadways; collects fares and charges from passengers and hands over to employer prescribed amount as recorded by taximeter; term includes owner driver (taxi) g.v.

driver, tower wagon (motor), see driver, overhead wagon (motor).

market carrier (motor); a motor driver g.v. who drives motor van or lorry for the conveyance of produce to market, or from market to retailer.

milk collector; a motor driver g.v. who drives a lorry, collects milk from farmers, and takes it to a depot or railway station.

motor driver assistant; accompanies motor driver g.v.; is generally an efficient driver, and takes place of driver in case of need; assists in loading and unloading lorry or van, cranking-up motor, execution of roadside repairs; is responsible, with driver, for seeing that lorry or van is never left unattended when in use.
 railway carrier (motor); a motor driver g.v. employed, either by railway company or local railway contractor, to collect or distribute goods in area served by railway station.

sack collector (motor); a motor driver g.v. who drives motor vehicle in which he collects empty sacks or bags from customers of his employer; cf. sack collector (719).

721.—DRIVERS OF STEAM WAGONS AND TRACTION ENGINES (not Agricultural).

driver, Motor steam dray; motor steam lorry driver, steam lorry driver; steam wagon driver; drives dray, lorry or wagon (brewer's, timber, etc.) propelled by steam motor.

driver, steam omnibus; drives an omnibus which is propelled by steam generated by flash boiler system and consuming paraffin or similar fuel.
 driver, steam roller; drives, fires, and attends to a steam roller, controls driving wheel and directs roller, so and fro, along surface of road being rolled; shovels coal into boiler fire to maintain required steam pressure, periodically rakes fire to remove clinker and ashes; oils bearings, cleans engine, boiler parts and brasses with cotton waste.

driver, steam wagon, see driver, motor steam drag.
 driver, tractor; motor tractor driver, steam tractor driver, traction engine driver; drives, attends generally to a mechanically-propelled tractor; may also act as steerer and stoker *q.v.*

drawman, steam wagon; feeds fire of steam wagon and assists driver to keep wagon clean; may also act as steerer *q.v.*
 steerer (steam wagon traction engine), motor steerer; is in charge of steering wheel of steam wagon on traction engine; may also act as stoker *q.v.*
 stoker, motor steerer lorry; motor stoker, motor wagon stoker; feeds and cleans fire in engine of steam-propelled lorry or wagon; may also act as steerer *q.v.*

722.—TRAM DRIVERS.

cable tramcar driver; in charge of a car propelled by a uniformly moving underground endless cable; controls gear for connecting and disconnecting car and cable; operates hand brake.
 electric car brakesman; accompanies motorman as driver of tramcar on very steep hills and operates a "slip brake" which grips conduit in centre of rails.

horse tramcar driver; drives horse-drawn tram; operates hand brake.
 motorman (tramways), tramway motorman; runs driver, tramcar driver; drives a tram propelled by electric motors drawing power from overhead wires or road conduit, regulates supply of current by switch handle (controller), and operates hand and magnetic brakes.
 tram driver, tramcar driver; see motorman (tramways); sometimes specially designated, e.g. electric tramcar driver, freight tramcar driver.

723.—VAN BOYS AND VAN GUARDS.

carman's nipper, see van boy.
 cart boy, cartier's boy, cartier's lad, cart minder; minds horses, and generally assists cartier (719) *q.v.*
 cart minder (market); holds heads of market cart horses while driver (719) *q.v.* transacts his business.
 drag boy, drag nipper, dragman's assistant, *as for* van boy.
 guard (carriage), see van boy.
 guard, motor (Post Office); travels on motor vans belonging to Stores Department to guard stores in transit from head office to sub or branch offices; assists in loading and unloading of vans; gets check slip receipt for stores delivered and returns it signed to storekeeper (941) *q.v.*; when not so engaged, assists generally in stores.

lorry boy, lorry boy, lorry nipper, lorry nipper, *as for* van boy.
 mail guard officer, see van guard (mail).

motor lorry driver's assistant, *as for* van boy.
 motor porter; accompanies motor van driver (720) *q.v.* and assists in collection and delivery of goods.

motor portress, *as for* motor porter.
 motor van driver's assistant, *as for* van boy.
 parcels cart lad, parcels van lad; a van boy *q.v.* accompanying a parcels cart or van.

trolley boy, *as for* van boy.
 van boy, van attendant, van guard, van minder; carman's nipper, guard (carriage); travels on tail board or back of cart or van to look after goods therein; feeds and waters horses on the road, helps cartier to load, unload, collect and deliver goods.

van guard, motor van guard (mail); mail guard officer; travels with and guards contents of mail vans.
 wagoner's boy, *as for* cart boy.

724.—OMNIBUS AND TRAM CONDUCTORS.

charabanc conductor, motor car conductor; is conductor to charabanc or large motor car plying for hire; takes fares from and issues tickets to passengers, or examines tickets purchased at ticket office; acts as guide and describes places and buildings of interest in passing.

omnibus conductor, bus conductor (motor or horse); collects fares on an omnibus, issuing tickets marked with amount of fare, and punched against stage for which issued; gives starting and stopping signals to driver (719, 720) *q.v.*; changes boards, etc., showing destination; keeps record of tickets issued, time-keeping of vehicle and details of journeys for inspection by ticket inspector (714) *q.v.*; is responsible for number of passengers permitted by local by-laws or police regulations not being exceeded, and for safety of passengers in boarding and alighting from vehicle.
 omnibus conductor, railway; omnibus guard; in charge of hotel or railway omnibus; sees to loading and unloading of luggage; assists passengers.

tramcar conductor, tramcar guard, tram conductor (cable, electric, freight, horse, steam), *as for* omnibus conductor (motor or horse).

tramcar junior guard; assists passengers to board or to alight from car; signals to driver (722) *q.v.* to start or stop when conductor is collecting fares, etc.; collects fares on upper deck while conductor remains below to prevent overcrowding; assists conductor generally, more particularly during rush hours or when trailer is attached to car.

725.—GROOMS AND HORSE KEEPERS.

collarman; a stableman *q.v.* also in charge of collar room of large public stables; issues horse collars to carters (719) *q.v.* and collects them after the day's work; examines collars for wear and tear and despatches them, as necessary, to saddler's shop for repair.

coll breaker, see horse breaker.
 exercise boy; a stable boy *q.v.*, e.g. at racing stables, who takes out horses for exercise.

groom; horsekeeper, horse man; feeds and waters horses in stable; combs and brushes coats, manes and tails; cleans boots and applies dressing to hoofs; clips horses' coats with clipping machine and trims manes and tails as required; rides or walks horses for exercise when necessary.

groom, domestic; a groom *q.v.* engaged in domestic service; accompanies members of family out riding and sometimes instructs them in riding; usually acts as own stableman *q.v.* and usually is a limited servant; often waits at table and serves as footman (909) *q.v.*; sometimes also assists gardener (913) *q.v.* in light work.

horse boy, see ostler.

horse breaker; coll breaker, horse framer (not *horse*); accustomed to bring horses to reins and saddle, or to being harnessed to vehicles, and inures them to road traffic; for saddle horses, harnesses in weighted saddle and, using long reins, accustoms

horse to obeying words of command, etc., in trotting ring, subsequently rides horse himself until it is perfectly broken in; for vehicle horses, harnesses in light gig with long shafts and drives horse until it is sufficiently used to words of command; completes training in ordinary vehicle and corrects faults, e.g. bucking; cf. rough rider.

horse clipper; trims horses' coats, manes and tails by hand, with a horse clipper as distinct from clamping machines used by stableman *q.v.* etc.; usually works on own account or is employed only at large stud, racing, or hunting stables; usually also does work of horse singer *q.v.*

horse feeder; prepares and gives food to horses in large stables; usually done by groom *q.v.*

horse fitter; a groom *q.v.* skilled in treatment of sick horses; recognizes symptoms of common maladies and prescribes or mixes appropriate remedies.

horsekeeper, horse man, see groom.

horses alinger; sings horses' coats after clipping to remove loose ends and promote even growth and glossiness; usually done by horse clipper *q.v.*

horse trainer (not race horses), see horse trainer.

hooter, see ostler.

livery stable helper; a stable helper *q.v.* employed at livery stables.

napman, see ostler.

ostler; knacker, horseboy, napman; a stableman *q.v.* who feeds, waters and stalls customers' horses in hotel stables, and who has custody of vehicles temporarily left in stable yard, coach house or motor garage; collects fees for stabling horses or vehicles, handing to hotel proprietor monies received; often employed part time in driving hotel omnibuses to and from railway station or at boots (909) *q.v.*

rough rider; a horse breaker *q.v.* who, in addition to other methods of training horses, rides them bare-backed.

sick horse keeper; looks after sick horses, feeds and waters them, and administers medicine; employed, e.g. in large carriage company's stables; work normally done by horse foreman (715) *q.v.*

stable helper, stable boy, stable labourer, very good (livery stables); does odd work in stables, e.g. cleans stables, brings food and water for horses, etc.

stable man, stable keeper; rakes or sweeps out used bedding, etc., from stable stalls, shovels into harrow, wheels to and tips into manure pit; sweeps stalls, runnels and stable yard with hose pipe and sweeps down to remove refuse; throws down, with fork, clean bedding (straw, litter, etc.) from left into stable below and spreads it in stable; cuts chaff for horses by feeding hand or power-driven chaff-cutting machine; cleans stable windows, sweeps stalls and generally cleans stable premises; lime washes stables periodically; sometimes does part of groom's duties, e.g. feeding, watering and cleaning horses.

yardman (livery stables), see stable helper.

726.—OTHER WORKERS.

barrow lender, barrow letter, see barrow truck letter.

bar turner (tramways), see pole shifter.

batb chair attendant, batb chair drawer, batb chair man, batb chair wheeler; chair drawer, chair wheeler; pushes or draws invalid chairs (batb carriage); owns chair, cf. batb chair proprietor, or hires from proprietor for daily payment, or is employed by him at weekly wage; usually stands on recognised rank with chair for hire.

bash chair driver, donkey; leads a donkey which draws a bath (or invalid) chair, plying for hire chiefly in streets of health resorts.

bath chair proprietor, bath chair letter; chair letter, chair proprietor, wheel chair proprietor; owns one or more bath or invalid chairs which he lets out on hire by hour or day.

bath chair proprietor, donkey; a bath chair proprietor, *s.v.* who owns and lets on hire, invalid chairs drawn by donkeys.

bridge company's officer (toll collector); collects tolls from pedestrians, drivers of vehicles, cattle drivers, etc., using a bridge belonging to a private company.

bronzes coin distributor (tramways); accompanies copper van driver (740) *s.v.* to tramway depots, taking supplies of bronze coins for use by conductors (734) *s.v.* in giving change; also collects coins paid in by conductors, from depots, and takes them to bank or to head office and renders statement to tramway cashier (335) *s.v.*; sometimes has arrangement with shops, etc., for taking bronzes or other coins, to save transport to bank or head office.

carriers' labourer; assists in loading and unloading carts, horses, etc., and does odd manual labouring work in yard or garage of master carrier.

chain horse boy; cock horse boy, tip boy, tipper, trace boy, trace horse boy; looks after and leads a horse that helps wagen, barge, horse, with their loads; wherever help is needed; employed by canal companies, haulage contractors, etc.

chair driver, see bath chair attendant.

chair letter, chair proprietor, see bath chair proprietor.

chair wheeler, see bath chair attendant.

check examiner (tramways); examines tram lines at busy traffic points or on sharp curves to ascertain whether check edge on tram rail (which prevents car from leaving metal) is in good condition; reports to district permanent way inspector (714) *s.v.* and recommends repair or renewal of defective portions of rail.

chief licensing tacter (omnibus), see re-licensing man (omnibus).

cleaner; general term for any worker engaged on cleaning of vehicles etc.; their accessories, etc.; sometimes specifically designated, *s.v.* beam cleaner, cab cleaner, engine cleaner, harness cleaner, lamp cleaner, motor cleaner, omnibus cleaner, station cleaner (tramways), tramcar cleaner; usually night workers; *cf.* washer.

cleaner, conduit (tramways); trap cleaner; drains and cleans out dirt and water from conduit boxes which are fixed along route on conduit tramway system.

cleaner, controller (tramways); controller attendant; cleans blades and contacts of tramcar controllers; notices minor faults, and reports larger ones.

cleaner, point (tramways); cleans out dirt from tramway line points with brush and steel rod; oils point bearings.

cleaner, rail (tramways); cleans surface of tramway rails by pushing backwards and forwards a heavy metal burnisher covered with abrasive material.

cleaner, track (tramways); track man (tramways); cleans grooves of tramway rails with specially-shaped tool, which scrapes out dirt, etc., from groove.

cleaner, trap (tramways), see cleaner, conduit (tramways).

cock horse boy, see chain horse boy.

controller attendant (tramways), see cleaner, controller.

donkey driver, donkey keeper, donkey letter; drives donkeys (of which he is often owner) let out on hire for rides at pleasure resorts.

doorman; collects refuse from houses and shops into a cart; assists in unloading cart at depot.

emergency man (tramways); a tramway conductor (734) *s.v.* who is held in readiness to replace anyone of depot cashier's assistants who may be on leave or sick.

farmer of tolls; lessee of tolls, toll collector (constructive); obtains from owners, in return for an agreed rental, right to levy tolls at fixed rates on vehicles, pedestrians, cattle, etc., passing over a bridge or a certain section of road.

flagman (tramways), see signalman (tramways).

garage hand; does unskilled work in motor garage; helps to clean and oil cars and fills their tanks with petrol; cleans garage.

goat carriage driver; leads a goat, or goats, drawing a small carriage plying for hire at pleasure resorts.

grease; file axle boxes of vehicles, such as trams, buses, motors, carts, trucks, with cert grease; file grease-boxes of motors and oils engines.

guide (Automobile Association or Royal Automobile Club), see patrol (Automobile Association or Royal Automobile Club); sometimes specifically designated, *s.v.* cyclist guide, motor guide, motor cyclist guide.

hand truck letter, hand truck proprietor; borrows leader, borrows letter; owns hand trucks or harrons, which he lets out on hire to caterers, etc.

harness room man; has charge of harness room attached to large stables (*s.v.* those of railway company's carriage depot, firm of carriage contractors); issues harness sets to drivers (719) *s.v.* before and collects them after the day's work; hangs sets on pegs; examines sets to ascertain whether replacement or repair of leather or metal parts is necessary; sends defective sets to saddler (344) *s.v.* for repair.

hauler's labourer; assists haulier (719) *s.v.* with loading and unloading in omnibus (omnibus service, tramways); accompanies candidates for employment as drivers, on trial runs; reports as to their suitability to traffic manager (716) *s.v.*; allocates trams to experienced drivers (735) *s.v.* on other prescribed period of training on various routes, himself accompanies each trainee on trial journey and finally reports, as to suitability, to traffic manager.

instructor, technical electrical (tramways); motor demonstrator; takes drivers or other workers through course of instruction in technical side of their work.

lamp and bell attendant (tramways); Night and bell examiner (tramways); examines electric globes, switches, signs, signal lights and electric or other tests of trams on their return to depot, and repairs or replaces faulty parts, etc., is responsible to depot superintendent (734) or to depot foreman (716) *s.v.* for ensuring that cars leave depot with lights and mechanical bells in good working order.

lessee of tolls, see farmer of tolls.

light and bell examiner (tramways), see lamp and bell attendant (tramways).

loader, cart; cartage loader, carrier's van loader, van loader, warehouse loader; assists carter (719) *s.v.* as warehouse, wharf, market, or railway goods depot in loading vans with goods for delivery.

motor demonstrator (tramways), see instructor, technical electrical.

overhead wagon boy (tramways); accompanies emergency overhead wagon, and assists linesman by handing loads, etc.

patrol (Automobile Association or Royal Automobile Club); guide, scout, patrol, or cycle or motor cycle, usually reads over an appointed area, guiding and aiding members of Automobile Association or Royal Automobile Club; or stands at junction of two or

more busy main roads, on point duty; but for his base a way-side cabin containing a telephone, assists in case of breakdown, and if necessary, telephones for assistance from nearest garage; sometimes specifically designated, *s.v.* cyclist patrol, motor cyclist patrol, motor patrol.

petrol man (omnibus); fills petrol tanks of motor omnibuses, and returns empty petrol cans to petrol store, is usually employed part time in sweeping and washing-down garages and approaches.

pitman (tramways); works in sunk pits, cleaning underneath parts of trams in shed or depot.

plough changer, plough shifter (tramways); connects and disconnects plough (instrument which picks up current from conductors) to and from cars at junction of overhead and conduit systems.

post attendant (tramways), see pointman.

point boy (tramways); assists pointman *s.v.* or controls points at small junction.

pointman (tramways); point attendant; controls points or switches on tramway by a lever, or a neighbourhood of switch; often acts as signalman *s.v.*

pole shifter (tramways); bar turner; works at large junction, or terminus, transferring trolley poles of trams from one overhead wire to another, or reversing them for tram to start on return journey; often done by conductor (734) *s.v.*

private checker; stands at point on omnibus route to note number of passengers in passing buses, for guidance of traffic adviser (714) *s.v.*

railway carting agent (not employed); driver, or agent, of lorry or motor van, as outside carrying agent of heavier goods for a railway company; usually owns horse and van, or motor, but sometimes hires from cartage contractor (715) *s.v.*; usually to be found at small railway stations, which companies have no carts; often also carts for private individuals; *cf.* railway carting agent (713).

railway parcel agent (not employer); as for railway carting agent (not employer) but handles lighter goods only.

re-licensing man (omnibus); chief licensing tacter; an experienced motor mechanic and driver who examines omnibuses after annual overhaul in preparation for re-licensing; drives omnibus for short trial, testing starting and brake controls, etc., on return to garage, reports omnibus in running order or returns it, for further overhaul, to repair shops; similarly tests new omnibuses before they are sent for police inspection to obtain licence.

sand dryer (tramways); dries, in oven, sand used on tramcar to prevent slipping on wet or greasy rails; sand is wet sand into oven; rails sand is quicken drying; stokes furnace fire as required; shovels dry sand into wheelbarrow and discharges into hopper for storage; fills, therefore, small bags with dry sand for depositing at other depots or for use by sandman *s.v.*

sandman (tramways); a depot labourer who replenishes sand boxes of tramcars with dry sand; also fetches spare bags of sand and places on cars for use of tram drivers (722) *s.v.*; is specially engaged part time on other labouring jobs.

scout (Automobile Association or Royal Automobile Club), see patrol (Automobile Association or Royal Automobile Club); sometimes specifically designated, *s.v.* cyclist scout, motor cyclist scout, motor scout.

setter, cart; cart shunter, van setter, van shunter; takes horse and van from driver (719) *s.v.* on arrival at carriers' or railway yard, and while driver tests or goes to customer, sets or shunts van against leading or nailing stages, etc.

setter, truck; sets or shunts trucks or
harrow in markets, etc., for con-
venience in loading or unloading.

setter, van, see settler, cart; cf. van
setter (706).

shunter, cart; van shunter, see
setter, cart.

signalman (tramways); fogmen
(tramways); signals, to approuching
trams, at busy tramway junction,
dangerous bend in the road, etc., when
road is clear, by pulling lever of
semaphoric arm signal or by raising
or dipping a flag; at night, sometimes
signals with red or green lamp; also
warns pedestrians or drivers of
vehicles of approaching trams; often
done by pointman (tramways) g.v.

ticket office attendant (tramways);
receives ticket boxes from incoming
conductors (734) g.v. and handing
out ticket boxes to outgoing con-
ductors; places ticket boxes, as
checked by ticket clerk, on shelves in
readiness for making up by clerk for
next day's journey; is responsible to
clerk for keeping boxes on shelves
according to routes, in proper rotation
for re-issue.

tip boy, tipper (tramways), see chain
horse boy.

toll agent (contractor), see *ferret* of
tolls.

toll bar keeper; turnpike gate keeper;
collects tolls for owner of road from
pedestrians, cyclists, drivers of
vehicles, etc., and opens and shuts
toll gate.

trace boy, trace horse boy, see chain
horse boy.

track man (tramways), see cleaner,
truck.

traverse man; operates, by hand
lever, traverse-table (a platform level
with the ground, running on rollers)
on which trams are transferred
laterally from one set of rails to
another, in car changing to facilitate
cleaning, examining, etc.

traverse; travels on loaded dray
or motor lorry with drayman (719) or
motor lorry driver (720) g.v. on
delivery round; discharges barrels at
customers' premises (sometimes
assisted by another traver) by rolling
barrels down sloping runner into
cellar; hauls empty barrels out of
cellar by hand rope and pulls them
on to drays.

turnpike gatekeeper, see toll bar
keeper.

washer; washes down vehicles with
water (from hose or bucket), rugs and
brushes; often further designated
according to kind of vehicle, e.g. cab
washer, car washer, carriage washer,
cart washer, dray washer, lorry
washer, motor car washer, omnibus
washer, tramway washer, truck
washer, van washer; cf. cleaner.

wheelbarrow letter, wheelbarrow
proprietor, see for hand truck letter.

wheel chair proprietor, see bath chair
proprietor.

Sub-Order 3.—Water Trans- port Workers.

730.—SHIP OWNERS, MANAGERS, BROKERS AND AGENTS.

agent, canal, in charge of clerical
and manual staff at a depot on canal;
acts as representative of canal com-
pany over specified area round depot;
directs and supervises crewmen
(731) g.v. and is responsible for
efficiency of conveying arrangements
throughout area; supervises receipt
of merchandise at warehouse and its
despatch by canal; supervises dis-
charge of incoming canal boats and
despatch of cargoes to consignees by
road or rail; collects freight charges.
warehouse dues, etc., from traders;
keeps record of cash received and
paid, and remits sums collected to
company's head office.

agent, packet, or for agent, ship.

agent, river and canal, or for agent,
canal.

agent, ship; shipping agent; (i) (at
port) represents a shipowner or ship-
ping company at a seaport, using
own premises and staff; arranges for
discharge and shipment (including
transshipment) of his company's ships'
cargoes, calling at, or ashore from,
port where he is stationed, and issues
necessary instructions to port or
dock authority, wharfinger (732),
master stowdore (732) g.v., etc.; re-
ceives bills of lading in connection
with outgoing cargoes and conducts
necessary correspondence with
traders; completes ship's papers
(manifest, etc.) in preparation for
her sailing; receives ships' papers
from masters of incoming ships and
sees that consignees have title to
goods, forming part of cargo, claimed
by them; collects freight due to
shipping company, sends the re-
sulting statements periodically or
as required, and remits to them
money collected by him; issues
tickets to passengers who travel on
his company's ships; is sometimes
also responsible for sailing and re-
visiting ships calling at port, and
usually being remunerated on
commission basis; (ii) (inland
town) represents shipowner or
shipping company in an inland
town, using own premises and
staff, in charge of conveying
arrangements in his town and neigh-
bourhood; arranges with port ship-
ping agent or with shipping company
for shipment of cargoes from his dis-
trict; issues and receives bills of
lading and transmits them to ship-
ping company or to port shipping
agent; collects freight from cus-
tomers; issues passenger tickets.

agent, tug company's; represents
tug-owning company at a port; is in
charge of conveying arrangements
and transmits orders for towage to
company which he represents; is
usually stationed at port other than
that where company head office is
situated, usually being remunerated
on commission basis.

broker, ship; acts as intermediary
between sellers and buyers of ships,
using own premises and staff;
negotiates sales of ships, too old for
further service, to ship breaker;
usually combines such work with that
of shipping agent g.v. and of ship
charterer g.v.

charterers, ship; acts as intermediary
between exporters and shippers or
ship masters (738) g.v. in exchanging
charter parties, i.e. agreements for
use of ships in conveying cargoes
from one port to another; prepares
charter parties, for which work
he has expert knowledge of
charter forms and of different types
of vessels; advises exporters, on
whose behalf he is acting, as to
planning of voyage; usually also does
work of shipping agent and/or ship
broker g.v.

731.—HARBOUR, DOCK, CANAL— OFFICIALS; PIER MASTERS.

ballast master, ballast inspector; is
responsible to ballast contractor (732)
g.v. for supervision of ballast heavers
(745) g.v.; sees that ballast is securely
stowed in ships so that it will not
shift during voyage, and, in dis-
charging ballast, supervises shifting
from ship's hold to quay and at
of voyage; sometimes also does work
of ballast contractor.

bank ranger, see inspector, canal.

berthing master; handles shore
matter; master of landing stage, quay
master; has control of landing stage
or quay from which vessels are
moored for discharge of passengers
and cargo; allocates berths for
vessels at landing stage or quay and
issues instructions for movements of
other vessels, if necessary, in case of

larger vessels, attends on landing
stage or quay, and, if needed,
directs landing stages, see (741)
g.v.; superintends embarkation and
disembarkation of passengers' lug-
gage, or of cargo, mails, etc., by
porters and laborers (745) g.v.;
keeps records of vessels berthing at
landing stages or quays, and of
number of passengers, as well as of
quantities of baggage, mails, or
cargo landed on each occasion, and
sends in returns to dock or harbour
authority so that proper dues may be
collected for use of landing stage or
quay.

boarding foreman, boarding officer;
is responsible to harbour or dock
authority for seeing that ship's
papers, etc., are in order before
allowing her to enter dock or
harbour.

buoy agent; is responsible to port
authority for letting of buoys for
mooring vessels, pleasure boats, etc.

buoy master, buoy yard foreman;
is responsible to river, port, or con-
servancy authority, for maintenance
and upkeep of buoys marking
channels leading to or from a
harbour, river, etc.; keeps in con-
dition of buoys and periodically makes
an inspection of all buoys in district;
issues instructions for removal
of buoys, when necessary, for removal
from channel anchorage to dry
yard for repairs, or to repair shops,
and on instruction from marine sur-
veyor g.v., orders new buoys to be
placed in channel to mark channel
alterations, position of wrecks, etc.

canvasser (dock); calls on shipping
companies to represent advantages of
a particular dock or port, and thus
secure necessary trade.

cargo receiver; under supervision of
wharfinger (732) g.v., receives cargo
delivered for shipment from carting
agents, etc., in dock warehouse;
issues instruction as to dis-
posal of cargo in warehouse until
ship is ready to be loaded; supervises
counters-off (749) g.v.; signs carriers'
(719) and lightermen's (735) g.v.
delivery notes in acknowledgment of
receipt of goods, and issues a dock
receipt, whereon he notifies irregu-
larities, e.g. frail containers, shifting
contents, signs of tampering with
packages.

cargo superintendent; is employed by
shipping company to supervise hand-
ling of cargo being loaded and un-
loaded at dock; is responsible to
marine superintendent g.v. for seeing
that cargo is carried, stored, or
expedited, so that vessel is not
delayed in port; issues instructions to
master stowdore (732) g.v. as to dis-
posal of cargo in ship's hold or dock
shed.

chief collector (dock); principal
collector of rates and dues; is respon-
sible to dock, port, or harbour
authority for collection of dues, rates,
or rents owing to them, and directs
and controls collectors g.v. engaged
in this work.

chief traffic manager (dock); is
responsible to dock, port or harbour
authority for regulation of traffic on
their premises, and directs and con-
trols staff engaged in this work.

coal derrick manager, coal derrick
master; is employed by coal con-
tractor or colliery agent at coal
staples on dock or quay used by
vessels for loading or unloading coal;
controls crewmen (735) g.v. and
generally supervises handling of
traffic and coaling operations;
executes coaling orders, allocates
vessels to appropriate derrick and
instructs railway companies as to
number of waggons required in coal
sidings at quay.

collector, harbour dues and rates;
collector of dues, port dues and
rates collector; receiver of dues, ton-
nage dues and rates collector; collects,
on behalf of harbour or port
authority, dues and rates owing from

traders or in respect of vessels using port, e.g. port or harbour dues, dock dues, landing charges, warehouse charges, demurrage, etc.; controls indoor and outdoor staff of rates and dues depots.

collector, toll (canal); collects tolls for canal authority, as lock or toll offices, from masters of vessels passing through canal; keeps records and remits monies collected, with statement of account, to canal company's office; frequently also does work of lock keeper (741) g.v.

collector, tonnage dues and rates; see collector, harbour dues and rates. **comptroller (dock);** controls financial side of dock authority's business; is responsible for collection of dues by collector g.v.; collection of rents for use of dock estate, etc.; payment of wages and dock accounts; supervises banking arrangements and signs cheques on behalf of dock authority or delegates such work to a responsible official; is responsible for keeping of company's share register and for payment of dividends to shareholders; sometimes also acts as registrar (390) g.v.

computer of dues (dock); assesses dues owing by tenders to dock or port authority; fixes dock and warehouse dues in consultation with committee of management of authority; publishes, from time to time, printed list of charges; revises lists of charges periodically, and fixes charges for new commodities not appearing in lists; informs collector of dues g.v. as to variations in assessment or alters time of dues.

dock master, dock superintendent; has general administrative control of a dock and its operation; as for harbour master.

dredging master, dredging superintendent; is responsible to port, dock or harbour authority for carrying-out dredging operations; on instructions received from marine surveyor g.v., orders dredger captain (733) g.v. to dredge channels alongside quays, or to remove banks or shoals impeding channel; instructs dredger captain (733) g.v. to dispose of dredged material at prescribed dumping grounds; controls staff operating dredgers and boppers.

dredging master and marina engineer; a dredging and marina engineer is also responsible for quays, dredgers, and other vessels belonging to dock or harbour authority.

establishment officer (dock); is responsible for engagement and discharge of staff of dock authority, and for compilation and preservation of records concerning such person employed.

examiner, chain; examines and tests in workshop, chains used on derricks, cranes, etc., in loading and unloading vessels; stands at berth along which chain passes or runs, or tests chain with hammer to detect faulty links; marks same with chalk for cutting-out and replacing with new links by smith (190) g.v.; places chains, examined or re-linked, on hydraulic testing machine and sets testing machine in motion to test chain considerably above its required lifting capacity; finally again examines with hammer for faulty links, and returns chain to stores for re-linking.

harbour master, harbour superintendent; port master; in charge of docks, wharves, landing stages, etc., under jurisdiction of port or harbour authority; is responsible for care and upkeep of dock property; controls movement of shipping into and out of port, harbour or dock; decides general policy in connection with quay space appointment.

haven master, as for harbour master; term found only in small harbours.

horse superintendent (canal); is in charge of horses used in towing boats and belonging to canal authority; supervises stablesmen (723) and horse

drivers (719) g.v.; fixes journey stages; makes periodic inspection of horses and stables; is responsible for purchase of fodder, litter, etc., and for sale of stable manure; purchases horses and sells them when no longer fit.

inspector, baggage; is responsible for passengers' baggage being properly put on board or landed; sees that it tallies with list supplied by shipping office, and (in loading) that it is taken to right part of ship.

inspector, ballast; see ballast master.

inspector, ballast ground; superintends men working on ballast ground unloading ballast from railway trucks, barges, etc., or loading it for conveyance to ship's side.

inspector of barges; (i) periodically examines barges to ascertain whether they are sea-worthy and otherwise in good condition, and reports any repairs that may be necessary; (ii) an official of local authority, who inspects barges, and sees that their correct registration, their compliance with regulations, their sanitary condition, and their freedom from infectious diseases.

inspector, boat loading; see inspector, cargo.

inspector, building (docks); inspects, externally and internally, buildings belonging to or occupied by dock authority, and arranges for any repairs, etc., that may be necessary; examines dock warehouses and certifies maximum load for storage on each floor; examines cases of strain in warehouse floors or supports, reported to him.

inspector, canal bank ranger (canal); periodically examines a specified length of canal or canalised river, takes soundings in canal channel, and at quays and landing stages; reports as to general condition of bank, bottom and recommends removal of weeds, cleaning of bottom, dredging, etc.; examines banks and towing paths, reports condition, recommends repair, etc.; investigates complaints as to shallow parts of channel.

inspector, canal lock; periodically examines lock gates, by opening and closing, to ascertain whether appliances work efficiently; inspects lock pit walls, woodwork and ironwork lock gates, notes leakage and defective parts and recommends repair.

inspector, cargo; surveyor of cargoes, boat loading inspector; inspects loaded vessels to see that cargo is properly trimmed i.e. level, and evenly distributed and lashed, or tightly packed, and not liable to shift in heavy weather and thus become a danger to stability of vessel.

inspector of chains, bolts, ropes, etc.; examines cables, chains, bolts, wire ropes, slings and lifting appliances used on dock or canal to test condition; recommends necessary repairs to dock or canal engineer; orders withdrawal of defective chains, etc., and sends to testing department.

inspector, dock; makes periodical visits to various parts of docks to see that work is being properly carried on, and notes irregularities.

inspector of flats; examines feet of "flats" (square-ended, hold-less lighters of shallow draught, used for certain kinds of cargo, e.g. coal, iron ore) belonging to dock, canal or harbour authority; reports defects to dock or canal engineer and recommends necessary repairs.

inspector, outdoor (dock); is responsible for inspection of docks, dock gates, bridges, quays and other outdoor premises and plant belonging to harbour, dock, or port authority; supervises inspector of chains, etc.; dock inspector g.v., albatross duties, receives their reports and recommends repairs to chief engineer.

inspector of shipping; is responsible to dock authority for inspection of ships berthed in dock or harbour to ensure that regulations regarding, e.g. erection of gangways, lighting fires, waste disposal, etc. are observed; patrols docks during loading and unloading operations to ensure that tackle dangerous to public or to dock property is not used; warns unauthorized persons off dock premises.

inspector of stores; stores supervisor; is responsible for maintenance of stores (gear, ropes, chains, lamps, etc.) in good condition.

inspector of timber; is responsible to dock authority for safe stowage of timber unloaded from vessels; supervises placing of timber in timber ponds, sees logs or timber rafts securely lashed together and anchored in pond to prevent damage to timber; supervises erection of timber stands, built up of sawn-up timber; satisfies himself that they will withstand gales.

inspector of tags, etc.; inspects tags, etc., in dock or harbour service, to ensure that they are fit for work and in good condition, and reports if repairs are necessary.

inspector of weighing; periodically inspects weighing machines on dock or premises, testing accuracy by check scales and standard weights; rejects inaccurate machines and rejects and notices keeper of weighing machines and materials g.v.

keeper of cranes; is responsible to dock authority for maintenance of cranes on authority's premises; supervises inspectors of chains, cranes, bolts, etc., and directs work of crane rope shop; albatross crane-men (390) g.v. in accordance with work in hand; orders movement of portable cranes about dock as necessary.

keeper, Trinity buoy; has charge in absence of him, of buoy belonging to Trinity House (lighthouse authority for England and Wales); sees that they are painted as often as required, and that they are always in correct position.

keeper, warehouse; has charge of warehouse belonging to dock authority, and is responsible for goods stored therein; controls and directs warehouse staff.

keeper of weighing machines and materials; has charge of weighing machines and materials (weights, etc.) and weighing machine parts in stores and on dock estate, is responsible to dock authority for ensuring that these are kept efficient and accurate; supervises inspectors of weighing g.v.; keeps records of machines altered and details of their use when rented by master storekeeper (732) g.v.; furnishes to collector of dues g.v. statements of machines and weights tested.

labour master; engages and discharges labour (unskilled or semi-skilled) employed by dock or harbour authority; despatches as required to work on dock estate; in charge of pay office, including payment of labourers and compilation of wage sheet.

landing stage master; see berthing master.

manager, dock and warehouse; is responsible for business arrangements in connection with storage, etc., in warehouses or on dock premises.

manager, traffic (canal); records entry of boats into canal and departure therefrom; issues instructions regulating entry, to avoid congestion; usually keeps map to mark volume of traffic in canal at any given time; observes rate of boats' progress, number of boats berthed at wharves, etc.; in general, facilitates easy progress of canal traffic.

manager, traffic (docks); is responsible to chief traffic manager g.v. for regulation of shipping, rail and road traffic in large dock dock estate, or section thereof; decides time of vessels' entry to suit berthing

accommodation; regulates road and rail traffic to prevent congestion in dock-sidings, quays or roads leading therefrom.
marine superintendent (dock), *marine supervisor (dock),* *marine surveyor (dock),* *marine surveyor and water bailiff; surveying officer;* conducts surveys of banks and channels of dock estate, or of port or harbour; prepares port or harbour charts; directs dredging operations; has charge of buoys, beacons and sometimes of light-houses and lightships showing harbour entrance and marking channels, has charge of dock or harbour authority's craft, i.e. dredgers, tugs, ferries.

master of landing stage, *see* **berthing master.**

pier master, *as for* **berthing master.**

pilot master; superintendent of pilotage, on dock or harbour authority's behalf, has charge of pilotage arrangements giving access to port; arranges pilot roster in accordance with tides and traffic entering and leaving port; keeps pilotage record and forwards salary sheets of pilots (733) *q.v.* to harbour authority.

port master, *see* **harbour master.**

principal receiver of rates and dues, *see* **chief collector (dock).**

quay master, *see* **berthing master, receiver of dues, see collector, harbour dues and rates.**

shore officer, night; combines duties of inspector of shipping, traffic manager (docks) *q.v.* etc., during night when volume of work does not justify attendance of these officials or their deputies; is responsible for supervision of dock quays, wharves and night loading and unloading operations.

stair master, N.E. coast term; a coal derrick master *q.v.* in charge of a coal stair (loading stage specially equipped for loading or unloading of coal); is responsible for care and upkeep of stair.
superintendent of stowage (dock); is responsible to dock or harbour authority for maintenance of docks, and of buildings, engines, cranes, loading and unloading apparatus, tugs, dredgers, and other plant belonging to that authority; directs and controls maintenance staff.
superintendent of pilotage, see **pilot master.**

supervisor, stores, see **inspector of stores.**

surveying officer, see **marine superintendent (dock).**

surveyor of cargoes, see **inspector, cargo.**

traffic agent (canal); represents a canal company in a particular town; solicits and books orders, and makes arrangements for traffic.
water bailiff (dock); a highly qualified technical man employed as harbour master *q.v.* or on harbour master's staff, or as marine surveyor *q.v.*; cf. **water bailiff** (749).

732.—WHARFINGERS AND MASTER STEVEDORES.

agent, wharf; represents shipping company, firm of carriers, or barge owners, on a wharf, and superintends loading of firm's ships, barges, etc.

contractor, ballast (docks); an employer who contracts to supply ballast required for ships, and, in most cases, to carry out actual work of ballasting.

manager, wharf; controls and superintends work being done on wharf; is responsible for care and maintenance of plant, etc.

representative, dock (not for dock company); represents shipowners or a commercial firm and transacts business, as to loading and unloading of vessels for employer at an office on or near docks.

stevedore, master stevedore, superintendent stevedore; an expert in scientific loading of ships; undertakes loading of ships' cargo, with aid of stevedores (743) and dock labourers (745) *q.v.* for a fixed sum; may, however, do similar work directly as employee of shipping company.

stevedore, coal; a master stevedore *q.v.*, specialising in loading ships with coal either as cargo or bunker coal; contracts to load ships on a tonnage basis, and employs coal tipplers and trimmers (744) *q.v.* for this purpose.

wharfinger; runs and sometimes owns a wharf equipped with cranes and other appliances for loading and unloading vessels and fitted for storage; usually a master stevedore *q.v.*; sometimes specifically named, e.g. coal wharfinger.

733.—NAVIGATING OFFICERS AND PILOTS.

captain, see **master;** sometimes specifically designated, e.g. large captain, dredger captain, ferry captain, hopper captain, launch captain.

captain (cable ship); navigation duties and responsibilities as for master on passenger vessel; also, where no cable engineer (300) is carried, is responsible for raising cable from, and lowering it to ocean bed, manipulation of cable on deck, testing and repair or splicing of cable; decides, in consultation with chief electrician (cable ship) (301) *q.v.*, extent of repair operations which can be done at sea.

captain, dredger, see **master, dredger.**

captain, ferry, see **master, ferry.**

commander, see **master.**

master, ship master, ship's master, master mariner; captain, commander; holds master's or master mariner's certificate, issued by Board of Trade; is in supreme command of vessel on voyage, and responsible to owners for its safe navigation; makes daily inspection of work going on in all parts of ship, to see that duties are being properly performed by all hands; in consultation with chief officer or first mate *q.v.*, arranges rota of duties necessary for ship's navigation; takes charge himself from bridge, and issues instructions to quartermaster (735) *q.v.* in case of fog or when ship is otherwise in danger, but does not usually keep a regular watch in other circumstances, at least on large vessels; is responsible for keeping ship's log and certifies its accuracy before it is handed over to Board of Trade on completion of voyage; keeps record of boat drills on passenger vessels; is responsible for custody of ship's papers (manifest, crew's discharge books, and statements of account); superintends and directs work of parser (737) *q.v.*; duties vary according to size of ship and according to number of subordinate officers (mates, pursers, etc.).

master, derrick; in charge of a flat or lighter fitted with derricks as he uses in any part of dock or harbour.

master, dredger; dredger captain; in charge of a dredger and its crew, and is responsible for navigation and dredging operations; does not hold, except rarely, a certificate, *see* **master.**

master, ferry; ferry captain; in charge of and navigates ferry boat which is mechanically propelled; does not hold, except rarely, a certificate, *see* **master.**

master, tug; commander and navigator a tug; usually holds Board of Trade coastwise navigation ticket, or navigating permit issued by river conservancy of similar authority; tows barges, sailing ships, and occasionally all steamships, through narrow waters (e.g. English Channel) or

from open sea, river mouth, outer harbour or roadstead to inner harbour, dock or dry dock, or vice versa; sometimes also tows ships in distress or under repair for long distances in open sea.

mate; officer; holds Board of Trade certificate of competence as first, second, etc., mate, first or second mate often also holds a master's certificate, which still serves as mate or assistant master *q.v.* in navigation and in executive control of vessel; takes watch on bridge in turn with other officers and is responsible for navigation of vessel during his watch, issuing necessary instructions to quartermaster (735) *q.v.*; supervises seamen (735) *q.v.* and sees their duties properly carried out; assists master in warping ship into and out of dock, taking his post at forecastle (if first mate) or at stern (if second mate); sees that hatch allocated to him is properly secured on voyage and supervises opening, when necessary; takes watch, in turn, when crew have been paid-off, during loading and unloading, until from crew signed on, usually specially designated, e.g. first (or chief) mate *q.v.*, second, third, etc., mate or officer, holds Board of Trade certificate.

mate, first; chief mate, chief officer, first officer; duties generally as for mate, but is subordinate only to master *q.v.* and in consultation with him; has special duties, e.g., in consultation with master, arranges rota of duties necessary for navigating ship, takes ship's bearings with sextant, etc.; sets course of ship and alters it, when necessary, in accordance with bearings, etc. taken over duties and responsibilities of master in case of master's death or serious illness.

officer (cable ship); as for mate (or officer) on ordinary vessel, but also assists, taking charge of a particular station, in work of raising, lowering, testing and splicing cable; usually specifically designated, e.g. chief officer of cable ship, second officer, third officer, fourth officer; cf. **captain (cable ship).**

officer of training ship; a master, mate, chief instructor *q.v.*, or junior instructor on a training ship in which boys and cadets are trained in navigation for mercantile marine service.

officer, salvage; general term for officers of a vessel engaged on salvage operations; includes master, mates, engineers (734) *q.v.*, etc.

officer, Trinity House; a master *q.v.* in command of a Trinity House vessel engaged on visits of inspection to light-houses, light-ships, buoys, etc.

pilot; a licensed waterman (738) *q.v.* who is skilled in navigation of some particular stretch of water, such as a river mouth, an entrance to a harbour, or dock, or some narrow and thronged stretch of sea, e.g. Bristol Channel; boards ship from pilot tender at entrance to harbour, etc., and takes over control of navigation from master *q.v.* to dock side, landing stage or harbour mooring, or vice versa; is supplied periodically with river or harbour charts showing depths of water and channels kept open for navigation, is notified of wrecks, shifting buoys, shifting or enlarged sandbanks, etc., and other exceptional dangers to navigation; is often an ex-master and/or has completed pilot apprenticeship; sometimes specially designated, e.g. dock pilot, canal pilot, river pilot.

pilot apprentice; is attached to pilot tender and indoctrinated, by pilotage authority, to learn, under supervision of pilot *q.v.*, navigation of some particular stretch of water, e.g. river, harbour, or dock entrance; must qualify for pilot's certificate; usually a youth qualified as A.B. sea man (735) *q.v.*

skipper; a slang term commonly used for a master *q.v.*, more especially of smaller vessels, *e.g.* schooners, ketches, barges, etc.
 skipper (traveller); in command of a steam trawler, and responsible to owners for its safe navigation; as for master, except that (i) he is not required to and usually does not hold Board of Trade master's certificate and has more limited powers and responsibilities, (ii) directs fishing operations as well as navigation, and is often partly remunerated by share in proceeds of catch.

734.—ENGINEERING OFFICERS.

driver (drifters); an engineer *q.v.* responsible for main and auxiliary engines in a fishing drifter; also stokes fire.

driver of motor, *see* motor driver *men*.

driver, steam dredger; has charge of engines and machinery on steam dredger.

engine driver, engine man; an engineer *q.v.* on small vessels, such as steam fishing drifters.

engineer, marine engineer; a ship's officer who is responsible to chief engineer *q.v.* for running and care of machinery aboardship; has thorough knowledge of engine fitting and mechanics and is responsible for dynamo, hydraulic engines, electric cranes, refrigerating machinery, donkey engines, etc., in addition to engines on main propulsion shaft; must hold Board of Trade certificate appropriate to his grade; watches engine room telegraph for instructions from bridge; watches pressure gauges, and notes, chiefly by sound, smooth running of engine; carries out necessary repairs; takes watches in turn with other engineer officers; keeps log of shaft revolutions, etc.; issues instructions to firemen and trimmers (735) *q.v.*, through chief or leading hands; usually specially designated according to rank, type of ship worked on, or kind of machinery which he controls, *e.g.* second, third, fourth engineers, grab barge engineer, hydraulic engineer, refrigerating engineer.

engineer, chief; first engineer; has complete control of engine-room plant and crew, and is responsible only to master (735) *q.v.*

motor driver, motor man; driver of motor, looks after, or assists engineer in looking after, internal combustion engines of small motor vessel.

735.—PETTY OFFICERS, SEAMEN AND DECK HANDS.

A.B., able-bodied seaman, able seaman; a seaman with three years' approved sea service and in possession of Board of Trade discharge "A," endorsed by Superintendent, Board of Trade; is qualified to perform all duties required of a competent member of a ship's crew, *e.g.* sweeping decks, coiling and splicing ropes, keeping look-out, painting ironwork, tanks, etc.; on small ships, often also does work of quartermaster *q.v.*; is under supervision of boatswain *q.v.*

apprentice; *see* cadet, midshipman; a youth who performs A.B.'s duties as part of training for officer (733) *q.v.*; receives navigation instruction from master (735), or from chief officer (736) *q.v.*

boatswain (bosun, bo'n); is chief uncorrupted petty officer on a merchant ship; has charge of and overhauls boats, sails, rigging ropes and other gear; has complete charge of deck crew (as opposed to engine-room crew), arranges their watches and duties, and is responsible to officers for proper execution of orders; takes command of ship in absence of, or on loss of, officers.

boatswain's mate; deputy to boatswain *q.v.* and takes his place in emergencies, or when he is off duty; works alongside and supervises deck crew in work of cleaning deck, painting ironwork, rope splicing, etc.
 boy, ship's boy; performs light unskilled duties on board ship, such as brass cleaning, rope coiling, etc.
 cadet, *see* apprentice.

carpenter, ship's carpenter; a petty officer *q.v.* who repairs spars, booms, leaders, and deck gear during voyages and repairs and caulkers deck; secures hatch covers, etc.; records soundings of bilge compartments; on sailing ships, has also care of winches and capstans; where a ship's jinner (seagoing) *q.v.* is carried, performs heavier as distinct from lighter and finer repairs.

cassah, cussah; a member of Asiatic crew employed, either as lamp trimmer (on deck) or as storekeeper (737) *q.v.* in steward's department.
 deck boy; a boy *q.v.* employed as a deck hand *q.v.*

deck hand; general term usually applied to A.B.'s and to men who, though not qualified as A.B.'s, are, owing to length of service, paid similar wages; sometimes, however, applied to all men (not officers) employed on deck; duties as for ship's handmen, sailor helmsman, as A.B. *q.v.* performing duties appropriate to quartermaster *q.v.* but not rated as such.

joiner, ship's joiner; exceptional rating, found on some liners only; fine up or repairs, dismounts, ship's cabins or saloons, ship's furniture, cabinet work, skylights on upper deck, and companions; generally performs lighter, finer and more highly finished class of woodwork required about a ship, as opposed to heavier work performed by ship's carpenter *q.v.*; *cf.* ship joiner (shipyard) (474).

lamp trimmer; an A.B. seaman *q.v.* or junior petty officer in charge of oil lamps on board, and responsible to boatswain *q.v.* for keeping them in good condition; cleans, fills and trims lamps and places into position.

leacoy; an Asiatic seaman, strictly speaking a native of India, as distinguished from Malays, Chinese, etc.

mariner, *see* sailor.

masalgee; a member of Asiatic crew, serving under Lascar Agreement; under supervision of deck seaman *q.v.* cleans, trims and fills ship's lamp.

master of hold; a non-navigating petty officer, travels with ship and supervises loading, unloading and stowing of cargo and baggage, and ventilation of holds.

midshipman, *see* apprentice.

ordinary seaman; (i) a deck boy *q.v.* or other youth serving probationary period of three years (without which he cannot qualify as A.B.) and learning duties of a seaman under supervision of boatswain *q.v.*; (ii) an older man who has had sea-going experience, often intermittent, but has never qualified as A.B.; (iii) a seaman who has forfeited his Board of Trade discharge book, or who has lost it without attempting to obtain duplicate copy, hence is no longer recognised as an A.B.

petty officer; general term for leading seamen and uncorrupted officers, *e.g.* boatswain, ship's carpenter *q.v.*

quartermaster; a petty officer *q.v.* subordinate to boatswain *q.v.*, selected from A.B.'s *q.v.* to take charge of ship's steering wheel at sea, under instructions from officer on bridge; watches compass and keeps ship's head on course given by officer; in harbour, guards gangway, giving access to ship, to prevent trespass; runner; a deck hand *q.v.* who, with others of a skeleton crew, is specially employed to take ships on short voyages, such as London to Cardiff or

Antwerp; leaves vessel at port of arrival and receives agreed sum in payment for services.

sailor; mariner; general term for any person employed on a sea-going ship, with following exceptions: (i) usually officers and pilots (733) *q.v.*; (ii) usually officers and crews of tug, harken, ferry boats, dredgers, etc.; (iii) almost invariably skippers and crews of fishing boats; is less commonly applied to engineers (734) *q.v.* and trimmers *q.v.* or stewards, etc. (737) than to boatswains, quartermasters, A.B.'s, ordinary seamen, deck hands and other ratings *q.v.*
 seaman; an A.B. *q.v.* or an ordinary seaman *q.v.*

seaman; an Indian sailor acting as steersman or quartermaster.

sewing, deck; a member of Asiatic crew, serving under Lascar Agreement; as for boatswain, but super- vises Asiatic deck crew only.

tindal (deck); a member of Asiatic crew serving under Lascar Agreement; acts as deputy deck seaman *q.v.*; as for boatswain's mate, has supervises Asiatic crew only; *cf.* tindal (fireman) (736).

topas; an Indian sailor who acts as sweeper or cleaner on board ship.

Trinity House seaman, Trinity House mariner; a seaman *q.v.* or a sailor *q.v.* employed on board a lightship or a vessel belonging to Trinity House (lightship authority for England and Wales).

tug-boy; performs general unskilled minor duties on board a tug-boat.

736.—FIREMEN, TRIMMERS, GREASERS AND DONKEYMEN.

agwalla; an Asiatic seaman serving, under Lascar Agreement, as fireman *q.v.*

cranseman; a donkeyman *q.v.* who attends to engine which works cranes on board ship.

donkeyman; in charge of small auxiliary engine ("donkey" engine) used, mainly when ship is in port, for working winches, pumps and other appliances on board ship, other than main propelling machinery; fills donkey engine boiler with water by hand pump, and lights fire under it; stokes engine furnace and maintains required steam pressure; when donkey engine is not in use (usually when main engines are in steam) acts as greaser *q.v.* and also cleans donkey engine boiler, cleans and oils winches, etc., ready for use when ship is again in port.
 fireman, hopper; a fireman (steam vessels) *q.v.* on liner wherein boiler fires are hopper fed; shovels coal, brought in by trimmer *q.v.*, into hoppers and keeps hoppers replenished.

fireman seaman; a member of Asiatic crew, serving under Lascar Agreement; acts as leading fireman, but supervises Asiatic firemen and coal trimmers *q.v.* or greasers *q.v.*; often engages Asiatic crew.

fireman (steam vessels); stoker; shovels coal (placed in position by trimmer *q.v.* unless fireman does own tramping) into furnace to maintain required boiler steam pressure as shown on steam pressure gauge; rakes fire periodically to remove clinker and ash and thus make fire burn more brightly, rakes cinder and ash from fire box and stands there on one side to cool; assists trimmer in filling baskets with ash, or in wiring them; sweeps stokehold to deck by hand winches and tipping them overboard; on small vessels (barges, tugs, dredgers, fishing boats) often also acts as trimmer or as greaser *q.v.* or is employed on any labouring work when not engaged in firing.

fireman (Trinity House); fireman (steam vessels) *q.v.* on a steamer; Trinity House service (lightship authority for England and Wales).

fuelman; on oil burning ships, regulates by valve, oil flow from fuel tanks through feed pipe to fine jets, through which it is sprayed into furnace under ship's boiler; observes oil flames through glass screen, to ensure oil spray and air blast working efficiently; regulates valve of air blast, if necessary; opens furnace door periodically withdrawing spray momentarily, to clean jets with wire brush end to prevent clogging.

greaser; under supervision of engineer (734) g.v., oils and greases bearings and engine parts, using oil can, grease and cotton waste.

Kodja walla; an Asiatic seaman serving under Lascar Agreement, as coal trimmer g.v.

pentwallah; a member of Asiatic crew, serving under Lascar Agreement, who carries drinking water to agewallas and kodja wallas g.v. periodically, during their spells of duty; usually a kodja walla set aside for this work.

stoker; see firemen (steam vessels).

stoker (drivers); a stoker g.v. who takes alternate watches with driver (drivers) (734) g.v. on long runs, and is generally driver's deputy and second in command.

tiald (fireman); a member of Asiatic crew, acting under Lascar Agreement, acts as deputy to fireman serang g.v. in charge of Asiatic firemen and trimmers only; cf. tiald (deck) (735).

trimmer, coal trimmer; (i) (fishing) fires boilers of small fishing vessel; trims own coal; assists engineer (734) g.v. in keeping engine room clean and in oiling and greasing bearings and engine parts on boats where no greaser g.v. is carried; deputises for engineer when latter is off watch; (ii) (larger boats) as for trimmer (shipping services).

trimmer, coal trimmer (shipping service); shovels or wheels coal within reach of fireman g.v.; assists him in removing ashes and in discharging them overboard; often also helps in keeping engine room clean and in oiling and greasing bearings and engine parts where no greaser g.v. is carried.

winchman; a dockerman g.v. who controls winches, under direction of an engineer.

737.—PURSERS, STEWARDS, AND DOMESTIC STAFF.

baggage master (on board); has charge of baggage in holds and issues it on specified days (baggage days).

cf. baggage master (on shore) (739).

baker; bakes bread, cakes and pastry on liners and other large vessels; on smaller vessels, this is done by cook g.v.

bandady; *bandhady;* a member of Asiatic crew, serving under Lascar Agreement; cooks for Asiatic crew, and is specially qualified in cooking rice and East Indian dishes.

barber; has charge of hairdressing saloon on liner; cf. barber (820).

bar keeper, see steward, bar.

bar man; assists bar steward g.v. in serving refreshments, washing glasses, etc., on, or on large liner, has charge of one of ship's bars under general supervision of bar steward.

bell boy (on ship); waits on officers or passengers in answer to electric call bells.

bandhady, see bandady.

boots; cleans boots of passengers, fetches hot water, and does odd domestic work.

buglers (liners only) sounds call for passengers' meals; helps generally in dining saloon.

bullockman, see cattleman.

butcher; cuts up and dresses meat, poultry, game, etc., for cook g.v.; has care of meat, etc., in safe and cold storage chambers; when lina sheep, etc., are carried on board ship for consumption, kills and dresses animals; also takes charge of cats, dogs or other livestock belonging to

passengers or carried as freight; sometimes specifically designated, e.g. chief butcher, second or third butcher, assistant butcher.

cabin boy, see mess-room boy.

captain's boy; does work of captain's steward g.v. in small vessels, or assists captain's steward in large vessels.

cattleman; bullockman; assists dock labourer (745) g.v. in driving cattle or sheep up gangways on to ship, and in fixing dock pens for their accommodation; feeds and waters cattle, etc., at regular intervals during voyage, and sees that they are securely penned; cleans cattle deck at regular intervals or as required; is usually engaged by exporter (one cattleman for each fifty head of cattle) and does not form part of ship's crew.

chef; is chief cook, cf. cook, on large liner.

clerk, ship's clerk; writer; assists purser g.v. in keeping ship's accounts, passenger lists, wages account, etc., and other clerical work; on large passenger liners, is assisted by assistant clerk g.v.

clerk, assistant (ship's); assistant writer; under supervision of purser or of clerk g.v., does clerical work in connection with ship's accounts, passenger lists, crew's accounts, etc.; employed only on large passenger liners.

clerk, kitchen; on large liner, under direction of chef g.v., keeps accounts of ship's provisions daily and renders accounts to purser g.v.; also assists generally in ship's kitchen under direction of chef; cf. clerk.

conductress, see matron.

cook; prepares meals for crew and passengers (where latter carried), on large passenger liners, where several cooks are carried; often specifically designated, e.g. chief cook (or chef), curry or sauce cook, entree cook, fish cook, roast cook, soup cook, vegetable cook according to dish in which he specialises, cf. cook (900).

cook's boy; palley boy; assists cooks generally, preparing vegetables, etc.

engineer's boy; a boy employed as engineer's steward g.v. or as assistant to engineer's steward.

foreman cattleman; directs and supervises cattleman g.v., is responsible for their work being efficiently performed; attends to injured or sick cattle during voyage, and gives them simple medicines if required; supervises embarkation and disembarkation of cattle, is employed by cattle exporter and does not form part of ship's crew.

galley boy, see cook's boy.

horseman; is in charge of horses carried as cargo on board ship; supervises their feeding and watering and general welfare.

interpreter; answers passengers' enquiries (especially foreign passengers) and gives information regarding ship's routine, ports of call, etc.; translates and explains notices issued by ship's officers, for foreign passengers; conveys and interprets complaints or other communications from foreign passengers to officers; on emigrant ships, must be familiar with dialects spoken by emigrants of those races for which his company especially caters.

kitchen assistant; sculleryman, sculler; assists cook g.v. generally.

chief of washing women.

librarian; *library steward;* is in charge of library and reading rooms on liner; issues books to passengers, advises them as to suitable reading, assists them in searching for information in reference books; places magazines or reading room tables, etc.

lift attendant; works passenger lift between decks on large liner.

linen keeper; is in charge of sheets, pillow cases, towels, table linen, etc., on board a passenger vessel; issues linen to bedrooms stewards and stewardess g.v., as required, and

receives soiled linen from them; hangs soiled linen in readiness for prompt despatch to laundry at destination; keeps records of stock of linen and of despatch and receipt of packages to and from laundry.

master at arms (mercantile marine); patrols ship with a view to the prevention of petty misdemeanours among passengers or crew; obnoxious, but where found (large liners only) is regarded as under instructions from chief steward g.v.

matron; *conductress;* attends to comfort and welfare of children and of unaccompanied women on board large liners, especially of those in third class or steerage, or on emigrant ships; in latter case, is to some extent responsible for their conduct and discipline, is usually a professional nurse, sometimes also does work of chief stewardess g.v.

mess-room boy, mousa, officer's boy, officer's mousa; cabin boy; assists in waiting, cleaning, etc., in officers' mess.

oilman (engine room), see stock-keeper.

pantry boy; fetches and carries pantry stores (meat, milk, tea, sugar, etc.), and, as directed by pantry steward g.v., stores them or issues to cooks and stewards g.v.; assists in issue of crockery to those ratings and in stowing on racks and shelves when returned; assists pantry steward generally.

punkah boy; pulls rope or cord with regular intermittence to swing punkah (piece of cloth attached to a suspended rod), thus producing a current of air in cabins or saloons, when ship is in tropics.

purser; acts as clerk to master (738) g.v. and conducts his correspondence when in port; is responsible for custody of ship's monies and keeps ship's accounts; has custody of crew's discharge books and wages accounts; changes money for passengers; makes any necessary adjustments to passengers' tickets during voyage, takes charge of passengers' valuables; on large ships, especially passenger liners, is assisted by clerks and assistant clerks g.v.

saloon boy; keeps saloon tidy and attends to passengers' wants.

saloon topas; a member of Asiatic crew, serving under Lascar Agreement; keeps lavatories clean and tidy, and in charge of cleaning and sanitary work generally, for Asiatic crew.

sculleryman, scullion, see kitchen assistant.

steward, bar; bar keeper; is in charge of bar and serves passengers with wine, beer, spirits, etc., thereat; makes return to chief steward g.v. periodically or as required, of stocks of wine, etc.

steward, bedroom; cabin steward; makes passengers' beds, replaces soiled bed linen with clean linen obtained from linen-keeper g.v.; keeps passengers' cabins and sleeping berths clean and tidy; serves meals in cabins to sick passengers and waits on passengers in their cabins generally.

steward, captain's; waits on master (733) g.v. at meals, cleans his room and cabin and acts as his servant generally; cf. captain's boy.

steward, chief; is responsible to master (733) g.v. for catering department of ship, for efficient service of meals, and for comfort of officers and passengers generally; orders supplies through victualling superintendent (730) g.v. or (usually on small vessel) direct; has staff of stewards, and sometimes also of stewardesses, cooks, butchers, bakers, g.v. etc., to assist him; supervises their work and (on smaller vessels) engages them; on smaller vessels, sometimes also does work of purser g.v.

steward, engineers', engineers' mess room steward; serves meals in engineers' mess-room; lays and clears tables; makes engineer officers' beds; keeps their cabins clean and tidy and waits upon engineer officers (734) *q.v.* generally; *cf.* steward, mess-room.

steward, library, *see* librarian.

steward, mess room; serves meals in navigating officers' (733) *q.v.* mess-room; lays and clears tables; usually also keeps navigating officers' cabins and saloon clean and tidy, makes their beds and waits upon them generally; *cf.* steward, engineers'.

steward, pantry; is responsible to chief steward *q.v.* for keeping ship's pantry stores (meat, flour, sugar, tea, tinned foods, etc.) and crockery; issues stores to cooks or stewards *q.v.* as required; puts away crockery returned to him on shelves and racks; keeps record of stores received (at beginning of voyage) and of stores issued.

steward, saloon; waiter; arranges and clears tables for meals; waits on passengers travelling first or second class, keeps saloon clean; sometimes specifically designated, *e.g.* first saloon steward, second saloon steward.

steward, stowage; third class steward; combines duties of cabin steward and saloon steward *q.v.* for stowage or third class passengers.

steward (yakki); prepares passengers' meals on pleasure yacht, lays table for meals and clears; waits on passengers; makes beds, keeps cabins clean and tidy and waits on passengers generally.

stewardess; makes beds in, and tidies women's cabins, serves meals therein if women or children passengers are sick, looks after children if mothers are ill and waits upon women and children passengers generally, especially those travelling unaccompanied; if cabin duties are light, sometimes spends part time in repairing bed and table linen and supervision of linen keeper *q.v.* and/or specifically designated, *e.g.* bedroom stewardess, cabin stewardess, first saloon stewardess, second saloon stewardess.

stewardess, bar, *or* for steward, bar, stewardess, chief; is responsible to chief steward *q.v.* for general supervision of stewardesses *q.v.* and for allocation of their duties, where several are carried; arranges generally for attendance on women and children passengers and for their welfare, especially if they are travelling unaccompanied.

stock-keeper, store-keeper; has charge of ship's stores on board ship, receives and issues same and keeps records thereof; is sometimes assisted by assistant storekeepers, whom he supervises; on large ships, is usually specifically designated according to type of goods handled, *e.g.* bar store-keeper (beer, wine, etc.), deck store-keeper, engineer's (or engine room) stock-keeper, storekeeper (also known as oilman), victuals stock-keeper (food, meat, etc.).

stock tongs; a number of Asiatic crew, serving under Lascar Agreement, who attends to livestock (sheep, goats, poultry, etc.) carried for resupplying Asiatic crew; feeds and waters stock and cleans their pens; when not so doing is engaged on cleaning jobs, etc.

water, *see* steward, saloon.

writer, *see* clerk.

writer, assistant, *see* clerk, assistant (ship's).

788. BARGE MEN AND BOAT- MEN.

apprentice (River Thames); a boy learning to navigate vessels on River Thames under indentures of apprenticeship issued by Watermen and Lightermen's Company of London.

barge boy; gives general assistance on river or canal barge, *see* barge boy.

barge man, barges (slang); boat and barge man; a member of crew of river or canal barge, usually either captain or mate (canal barge, etc.) *q.v.*

beachman; assists boat owners in handing trippers into sailing boats, in launching boats, etc., and sometimes himself rows for pleasure party for party or other fee; during winter, does odd jobs about beach, *e.g.* sets lobster pots for fishermen (000) *q.v.*, paints boats for owners. boat and barge man, *see* barge man.

boat hand; general term applied to any member of crew of barge, lighter, canal boat, small fishing boat, etc., other than master or mate, *q.v.*, who renders general assistance at tiller or in body of boat, as directed by master or mate.

boat horse, river, *see* horse driver.

boat-keeper, boat-letter; boat owner; an owner of pleasure boats, which he lets out on hire, on lake, in public park, on river, or in seaside moor; either himself cleats boats and keeps them in repair, launches or pulls them out of water, etc., or directs employees to do so.

boat man; owns rowing boat, which he usually rows himself, licensed by river or harbour authority to ply for hire in waterway, for conveyance of passengers between vessels at anchor as channel and quay, also goods (passengers' luggage, ships' provisions, etc.); accepts other jobs, *e.g.*, conveying to landing stage or quay, mooring ropes thrown-out from vessel against landing stage, rowing-out to vessel on entering harbour and conveying letters or messages to shore for convenience of passengers or crew, conveying pilot (737) *q.v.* to and from ship where no pilot tender is available.

boat man, soldier's, *see* waterman, collier's.

boat man, contract; a boat keeper *q.v.* who contracts for supply of boats for a stated period.

boatman, Customs (i); a boat belonging to Customs service from point to point in port or harbour, conveying Customs officers engaged in boarding ships for Customs examination; or a member of crew of larger boats carrying, sailing, mechanically-propelled belonging to Customs service and used for that purpose; (ii) a boatman *q.v.* owning boat in which he conveys Customs officers about harbour, in way described.

boat man, derrick; member of crew of steam barge fitted with crane for lifting machinery, or other heavy, unwieldy cargo from ship's hold, or vice versa; in addition to ordinary duties of barge man *q.v.*, signals to crane man (736) *q.v.* when to raise or lower crane falls during lifting operations.

boat man, fog; a boatman *q.v.* owning a fogboat, *i.e.* boat used in and about harbours, *e.g.* to convey pilots and tugs for hire, or doing errands or rendering various small services to shipping thither.

boatman labourer (shipbuilding); roofer, raftman; acts as boatman in shipbuilding yard; passes ropes by having cut from coil; goes out to timber pond to gather or select logs, etc.; unloads and secures floating timber, ships' tenders, and other material, after launch of a ship by using a raft in river alongside shipyard, etc.

boat man, pleasure; (i) a boat keeper (rowing or sailing boats, pante, or canoes) on hire; (ii) employed by boat keeper *q.v.* to attend to customers taking out boats on hire; (iii) a boatman, saddie, who, in company with boat; books time boat taken and returned, receives customers' payments, makes return of sums received to boat keeper and remits monies to him or pays into bank, as directed; sometimes accompanies parties on trip, with or without other

boatman, rowing or sailing boat, then or helping them to do so; often acts as boat labourer *q.v.*; in off season, often spends part time in painting and varnishing boats and doing other repairs thereto, under direction of owner.

boat man (shipping service), waits upon boats entering or about to leave port, performing miscellaneous services, taking messages, conveying officers and men, etc.

boat man, Tidy House; rows or sails boat, which conveys stores and relief to light-houses, light-boats, etc., under jurisdiction of Trinity House light-house authority for England and Wales, or which takes buoy masters (731) *q.v.* or workmen to buoys, or is member of crew of larger boat (rowing, sailing, mechanically-propelled) similarly employed.

boat owner, *see* boat keeper.

boat woman; (i) as for labourer, boat (woman); (ii) as for boat keeper.

canal boat boy; cleans boat; assists in driving horse which pulls boat, and does other similar work on canal boat. canal boat man; general term for any man employed on a canal boat; usually includes captain and mate (canal boat, etc.), but may include captain and canal boat boy *q.v.*

canal boatman, *see* horse driver.

captain (river barge, lighter, etc.); skipper (river barge, lighter, etc.); master; in charge of navigation, along rivers and canals, of barge, canal boat, lighter, flat, keel, or other small craft (not sea-going), and is in command of crew of barge, etc., by tiller; often, with help of mate *q.v.*, propels boat with long sweeps (oars) or helps in raising or reefing sail, etc.; stows cargo, and sometimes loads and unloads it; usually does not hold a Board of Trade masters' certificate; *cf.* captain (731) for officer in charge of sea-going barge; *cf.* barge man.

captain, flat; a captain (river barge, lighter, etc.) *q.v.* of a flat (name given in Lancashire and Cheshire to lighter).

carrier (river or canal); a captain (river barge, lighter, etc.) *q.v.* or member of crew of canal boat.

cobbleman; cobbleman; a boatman *q.v.* who rows or sails a small flat-bottomed boat (cobble); distinct term.

dredger, coal (river barge); a labourer employed by coal contractor (710) *q.v.* at coal mouth or riverside wharf where coal is being raised by operation of crane; carries coal; stationed in rowing boat, recovers coal dropped overboard, during loading and unloading of ships, by dredging river bottom with perforated scoop; usually employed part time in sweeping coal and coal dust into heaps on quay.

dredger, dredgeman, dredgeman; member of crew of a dredger and employed part time or for season or deck hand (735) or fireman (736) *q.v.*; also helps in dredging operations, *e.g.* acts as pipe man (747) *q.v.* on sand pump dredger, or passes signal to crane man (730) *q.v.* on crane grab dredger.

ferry boat boy, ferry boy; assists ferry man *q.v.* or himself does work of ferry man on small boat; rows (or helps to row) boat; places gangways in position; moors boat at landing stage; collects fares; on steam or motor ferry boat, assists ferryman in firing boiler, and in controlling, greasing and oiling engine; sometimes specifically designated, *e.g.* steam ferry boy.

ferry boat proprietor; owns one or more ferry boats; usually rows or sails one boat; or for ferryman.

ferry man; plies to and fro across a waterway ferrying persons, livestock, vehicles, etc., in a rowing, sailing, motor or steam-propelled ferry boat, or in a flat-bottomed boat, which is pulled or pushed across waterway by means of rope or chain working on rollers; collects fares or tolls; plies

gangways, if required, from boat to bank or landing stage, during ebb or low water, etc.; moors ferry boat on landing stage with mooring rope, on motor or steam-propelled boats, also controls and fills petrol tanks, stokes furnaces, grasses and oils engines.

flat boy, *flat man*, *flatwater*, and *Chalkie* terms for lighter boy, lighter-man, *q.v.*

float boy, *as for* *float man*.

floatman; a boatman *q.v.* who rows or sails a rectangular boat (a "float") resembling a punt.

foreman lighterman; is responsible to lighter owner for care and management of lighters; instructs lightermen *q.v.* as to disposal of lighters in dock or at quay, arranges for tug to tow lighters from point to point as required, sees that lighters are expeditiously loaded and discharged by dock labourers (745) *q.v.*; marshals lighters alongside dock, quay or vessel for loading and unloading purposes.

freeman (River Thames); a waterman or a lighterman *q.v.* who is a member of Watermen and Lightermen's Company of London, and who has served his full time of apprenticeship on river.

hauler, *boat hauler*; walks along towing path by side of canal or river, and pulls (tugs) boat or barge with a rope; usually done by master or mate of barge *q.v.*

hobblir; *hobblir*, *hobblir*; rows or sculls small boat (in docks or rivers), in which he acts as unlicensed pilot, or does odd jobs.

hobblir to dock pilot; a hobblir *q.v.* who rows dock pilots from point to point as required.

hepper boy; assists on board a hepper; *cf.* *hepperman*.

hepperman, dredge *hepperman*, *hepper bargeman*; member of crew of hepper barge (into which material is discharged from dredger); *as for* *barge man*.

horse boy, *chain*; leads or rides chain horse (i.e. trace or leading horse) where two or more horses are used to tow boat or barge along river or canal; when not so employed, sometimes does any other work on, or in connection with, boat or barge.

horse driver, *hauling horse driver*; *as for* *haulman*, *boat horse rider*, *horse marine*; leads or rides, between prescribed stages, horse which tows barge or boat along canal with a long chain or rope; feeds and waters horse, if required, between stages; returns horse to stable for attention by stableman (725) *q.v.* on completion of journey; at small canal horse depot, acts as own stableman.

hovel, *see* *hobblir*.

boyman; a master *q.v.* or member of crew of a "boy," a large single-decked sailing barge commonly rigged as a stoop.

huffer, *see* *hobblir*.

keelman; *rester*, *keel captain*; *as for* *barge captain*; a "keel" is a flat-bottomed barge used in Yorkshire on waterways with short lock pits.

keelman, *keeler*, *keel boy*, *keel-bully*, *keel duster*; either captain or mate of "keel" (*cf.* *keelman*); often one of captain acts as mate, *as for* *barge man*.

keelchman; a master *q.v.* or member of crew of a keel, a small sailing barge in and about the port of Hull.

labourer, *boat* (boating); hauls boats from bathhouse to water and vice versa; at seaside resorts, hauls, or assists in hauling, boats up beach out of reach of tide, or hauls down beach as tide falls; and, as required by customers; fetches oars, sculls, sails, thwart, rudders, etc., from boat-house or store and returns them thereto after use; often sent out with party to row or sail boat for them, either alone or if with boatman *q.v.* assists generally; seasonally so employed during boating season only; during

off season, either finds other work or is employed in painting, etc., boats and doing minor repairs thereto.

launch boy; assists in miscellaneous duties on a launch or pleasure steamer.

ligger in tunnel (canal boat); propels barges or canal boats through low tunnels by lying on his back on top of barge and pushing barge along by pressing with his feet on roof of tunnel.

life-boatman; member of a life-boat crew (whole-time or part-time occupation); assists in cleaning station, i.e. in washing, polishing and cleaning gear; takes part in practice runs; may undertake station work (watch or look-out) at certain times, *e.g.* bad weather, as determined by life-boat captain; is usually a fisherman (900) *q.v.* or pursues other calling besides that of life-boatman, when a part-time member of crew.

lighter boy; does any odd jobs on lighters, *e.g.* fixing lighter's mooring ropes to quay posts, and unslashing when lighter moves away, and assists lighter captain and other lightermen *q.v.* (if any) generally; often captain's son and acts as mate *q.v.*

lighterman; member of crew of lighter, a large barge like craft used on rivers and sometimes towed round coast; may be a contract man, *i.e.* an ex-servicing barge man who has contracted to an employer to serve 2 years for a contract licence, or a fully apprenticed waterman; assists in navigation and in stowing cargo, *as for* *barge man*.

marine, *horse*, *see* *horse driver*.

mariner (river traffic); general term applicable to any member of deck crew of any type of vessel (steamship, sailing ship, lighter, barge, etc.) navigating river, including captain, mate, barge man, keelman, keelchman *q.v.*

master (river barge, lighter, etc.); *see* *captain* (river barge, lighter, etc.).

mate (on barge or canal boat, not a sailing barge or sea-going steam barge); *as for* *captain* *q.v.* in navigation of barge, lighter, canal boat, flat keel, etc.; takes turn at tiller; if *as for* barge, propels barge along waterway by pressing with long pole or, leads or rides horse drawing barge; moors vessel alongside quay or landing stage and, except on barge, assists in loading or unloading; *cf.* *mate* (735), *barge man*.

mate (female, on canal boat); wife of captain *q.v.* or canal boat; *as for* *mate* (on barge, canal boat, etc.).

purchase man (extra barge hand); a barge man *q.v.* who undertakes short trip on barge as extra hand for an agreed sum; *as for* *mate* (on barge or boat, etc.).

rafter, *raftman*, *see* *boatman labourer* (shipbuilding).

readman; takes charge of barge or barges moored to buoy in barges roads; moors and unmoors barges; may also be in charge of string of (say) seven barges moored one against another from wharf outwards into river.

sand hooker; member of crew of large transporting sand.

sculler; does odd jobs in small boat which he propels and steers about dock, river, etc., with single sail piked from stern of boat.

skipper (river barge, lighter, etc.); *see* *captain* (river barge, lighter, etc.).

stoopman; a master *q.v.* or a member of crew of a stoop (rigger-rigged sailing barge).

trawler (maul); a master or member of crew working on a dredger which keeps a channel clear by trawling. **trawman**; owner of small fishing boat which operates well in bottom for keeping fish alive until landed; lets-out boat on hire to persons fishing for pleasure at sea-side resorts; accompanies fishing party, if desired, and baits boats with live bait kept in well of boat.

waterman; a boatman *q.v.* licensed after 4, 6 or 7 years apprenticeship, to carry passengers and to ply for hire on inland waterways, frequently owning his own boat; usually also licensed as a lighterman; has knowledge of tides, waterways and docks in his district. *cf.* *waterman* (741), dock pilot (735).

waterman, collier; *collier's* boatman; plies for hire between shore and coal boats (colliers) conveying coals and crews, or coal heavers, or fetching mooring cables, etc.

waterman, boatman; boatman *q.v.* who takes pilot out to a vessel in channel or midstream.

wherryman; a master *q.v.* or member of crew of a wherry or sailing barge of light draft used on inland waterways, *e.g.* Norfolk broads.

700.—MARINE AND ENGINEERING SUPERINTENDENTS.

baggage inspector, *baggage master* (on shore); receives outgoing passengers' heavy baggage and ships it; sees to unshipping and despatch of baggage on arrival of ships; *cf.* *baggage master*, *on board* (735).

ship's husband (drifters or trawlers); works on shore, in consultation with owner; arranges berthing of boat, engagement of crew, replacement of missing members of crew, and ordering of stores, gear, and other requirements.

ship's husband (not fishing boats), *see* *superintendent, marine*.

shore purser, *see* *superintendent, victualling*.

steamship superintendent, *see* *superintendent, marine*.

stores manager (shipping company); in general charge of shipping company's stores on shore; directs and supervises storekeepers (941) *q.v.* in charge of sectional stores, *e.g.* catering department stores; is responsible to company for maintaining proper stocks periodically inspects sectional stores and certifies accuracy of storekeepers' annual or periodical stock-taking returns; sometimes also makes contracts for stores, *superintendent captain*, *see* *superintendent, marine*.

superintendent, victualling.

superintendent engineer; marine engineering superintendent; has control, on shore, of shipping company's engineering department; engages sea-going engineering staff; orders necessary repairs to ship's engines or deck appliances, or, if necessary, orders to company's engineering workshops; is responsible for maintenance and repair of dock appliances, if any, owned by company (cranes, hoists, weighing machines, etc.), and, similarly, of mechanical appliances at dry dock.

superintendent, marine; *steamship superintendent*, *superintendent captain*, *ship's husband* (not fishing boats); has charge of all ships in port belonging to a firm; makes arrangements for dry docking, surveying, repairing, and general overhaul of hull, decks, and rigging; supervises shipping and discharge of cargo and coaling of ships; engages or appoints masters and officers, and sees to engagement and discharge of crews, ordering of stores, adjustment of compasses, etc.; frequently also supervises building of new ships, and directs them at intervals while they are being built; sometimes also visits stranded vessel, or vessel damaged by collision, belonging to firm, and decides or advises on repairs and repairs.

superintendent, marine engineering, *see* *superintendent engineer*.

superintendent, outdoor; deputises for marine superintendent *q.v.*; supervises sections of work allocated to him, by marine superintendent, *e.g.* repairing vessel in dry dock, survey ship in port, salvage operations, and assists marine superintendent generally.

superintendent, victualling; providore superintendent, superintendent steward; shore purser, superintendent caterer; in charge of shipping company's catering department on shore, responsible for proper provisioning of company's ships, purchase of food and beverage supplies, cooking utensils, table linen, crockery, plate, glass, cutlery and other catering department stores; arrangements for removal of perishable stores from ship, on their arrival at port; sometimes also engages stewards, waiters and cooks (737) *q.v.* for service on board.

740.—HARBOUR, DOCK AND STEVEDORING FOREMEN.

assistant master stevedore; goes down to each ship's hold, as representative of master stevedore (732) *q.v.*, to ensure that stevedores (743) *q.v.* are storing cargo properly and in positions to facilitate discharge at port or call on voyage as shown in ship's manifest; often engages holdmen and other dock labourers (745) *q.v.* and pays them off at end of engagement, rendering accounts to master stevedore, whom he assists generally.

dock foreman; general term for foreman in charge of body of men engaged on any section of work in docks, usually in connection with loading and unloading ships and conveying goods to or from warehouses; supervises stacking and storing of goods according to marks; rejects goods unfit for storage; includes foreman dock porter, ship foreman *q.v.*

dredging foreman; has charge, under dredger captain (738) or engineer (734) *q.v.*, of men engaged on dredging operations.

foreman dock porter; foreman quay ganger, quay foreman (shipper's) in charge of dock porters (745) *q.v.* engaged in loading and discharging cargo on dock quays or in conveying it on their shoulders in trucks, to and from warehouses, railway wagons, carriers' delivery wagons, etc., and is responsible for efficient performance of their work; usually engages men for job on which he is engaged, at dock rates.

foreman of dry dock; has charge of staff engaged in maintenance of a dry dock, *e.g.* pumping dry, flooding, cleaning, etc.

foreman quay ganger, see foreman dock porter.

foreman ship worker, see ship foreman.

ganger, gangman; (i) slang term for foreman; (ii) directs work of gang of dock labourers (745) *q.v.* under general direction of foreman.

gate foreman, dock gate foreman; lock foreman (dock); prepares duties roster of dock gatemen (749) *q.v.* in accordance with tides; directs and supervises gatemen and is responsible to dock authority for their time keeping and for efficient performance of their work.

goods selector (shipping company); is employed by shipping company to determine, in consultation with ship foreman *q.v.*, in which hold or part of hold different parts of cargo shall be stored; assesses himself that various parts of cargo, to be discharged at each port of call in succession, are so stowed as to be easily accessible for expeditious discharge.

harbour foreman; in charge of a body of men engaged on any work, *e.g.* carrying or stacking goods, road making or repairs, on harbour premises.

leading foreman; supervises work of other foremen working on quays, etc., of dock or harbour.

leading stower; stowage foreman; under instruction of ship foreman *q.v.*, supervises stowers (745) *q.v.* and tells them in which hold, or part of hold, each part of cargo is to be stowed; is responsible for efficient stowing.

lock foreman (docks), see gate foreman.

lottery foreman; of wood sales, sorts wood sales on wharves and in warehouses at docks, into their proper lots, and places them in their respective positions, which are indicated by marks on floor, corresponding with marks and numbers in sale catalogue. Principle measurer; is employed by shipping company or shipping agent (730) *q.v.* to supervise and check work of measurers (749) *q.v.*; sends particulars of measurements to his employer.

quay deputy; a senior dock foreman *q.v.* selected to act as deputy for master stevedore (732) *q.v.* when he is absent.

quay foreman; (i) superintends dock labourers (745) *q.v.* engaging in sweeping and cleaning quays; (ii) (shipper's), see foreman dock porter, triangler, dock sampler (dock company); a dock authority employee who, upon instruction of owner, opens bales, cases, or other packages consigned to him, and lying in dock warehouse; takes out one or more samples representative of bulk of contents; puts samples in sample bags or other receptacles, seals with dock company's seal and labels for identification purposes, sometimes specifically designated, *e.g.*, grain sampler; *cf.* sampler (739).

ship foreman; foreman ship worker; as employed by master stevedore (732) *q.v.* to supervise loading and discharging of vessels; supervises rigging of derricks and falls by ship riggers (745) *q.v.*; allocates stevedores (745) *q.v.* and various classes of dock labourers, *e.g.* hatchmen, railmen, winchmen (745) *q.v.*, to their posts; consults with goods selector *q.v.* (if such is employed) to determine disposal of cargo in hold; engages and discharges dock labourers (745) *q.v.* and makes out their pay tickets for presentation at master stevedore's office.

steamship foreman; is responsible to marine superintendent or to stores manager (739) *q.v.* for supervising re-fitting and conditioning of ship in existing stock. If any, of stores on ship (dock stores, engine room stores, food stores, etc.); orders removal of defective stores and estimates additional stores required to complete preparation for voyage; requisitions such supplies for voyage; requisitions such stores from respective storekeepers (741) *q.v.* of shipping company's shore stores; is responsible for safe delivery of stores on board.

stevedore foreman, see leading dower, transporting foreman (P.L.A.), usually an ex-steamman on dock master's staff in charge of small crew on vessels being transported from berth to dry dock, or vice versa.

waterside foreman; general term for any foreman who directs and supervises a gang of men employed as dock labourers (745) *q.v.*, or in any other capacity, at waterside, includes foreman dock porter, harbour foreman, wharf foreman *q.v.*

wharf foreman, *cf.* dock foreman. wharf foreman, colliery; in charge, at colliery company's wharf, of work of delivering coal into ships' bunkers or holds for export or for carriage coastwise; directs and supervises capstamens (741), rope runners, coal tippers, coal hoist workers (744) *q.v.*

741.—LOCK KEEPERS; BRIDGE, STAGE AND PIER MEN.

berthing man; directs vessel to berth, allocated by berthing master (731) *q.v.*, at quay or in dock; receives mooring rope thrown from vessel and attaches to bollard or mooring post; removes mooring rope from bollard when vessel leaves quay or dock and throws it to dock seaman (737) *q.v.*; puts fender between quay and vessel side to prevent damage.

bridge man, bridge house keeper, bridge master; swingbridge attendant, swingbridge keeper, swingbridge man, swingbridge master; agents and closes swingbridges (for pedestrian and vehicular traffic) over entrance to dock, either by hand or by moving levers in bridge house; is in constant hydraulic or electric contact with attendant on bridge; by hand, when bridge is to be opened for passage of vessels and places chain barrier across roadway, which he removes when bridge has been closed. bridge man, hydraulic; a bridge house man, who opens and closes a swingbridge moved by hydraulic power. bridge turner, canal; as for bridge man, sometimes done by lock man *q.v.* caisson man (dry dock); controls, by means of lever, hydraulic or electric power which slides or rolls caisson (a massive watertight barrier) into position at entrance to dry dock, after vessel has passed into dry dock, prior to pumping-out of water; and similarly raises dock when closed is due to leave; oils and greases bearings, runners, levers, etc., of caisson at regular intervals or as required.

captain man; operates capstan, either by hand (pressing against bar, turning wheel, etc.) or by moving (raising or lowering) capstan cage, or electric or hydraulic power; allows capstan to revolve, drawing wagon, boat, etc., by means of chain or rope, until wagon or other vehicle is in desired position; when wagon is to be run on a terminal or raised up, it is raised by means of capstan; is at rest on table, to prevent it running off; oils and greases capstan and mechanism connected therewith, as required.

ebbm; keeps bridge, which rises and falls with tide (usually across entrance to a dock, harbour, etc.), clear of mud, sand, silt, etc., with shovel, at high tide, opens bridge (by lever operating hydraulic power) to admit vessels into and out of dock or harbour, and closes it after passage of traffic.

floating bridge conductor; turns windlass, round which draw-chains are wound, to open and close sections of floating bridge, as required by traffic; signals, by hand, to incoming pedestrian or vehicular traffic when bridge is to be opened, and places barriers across roadway, removing same after bridge has been opened.

floodgate keeper, floodgate master; floodgate staff, floodgate man, floodgate tender, sluice bridge keeper, sluice bridge master, sluice keeper, sluice master, water runner; has charge of floodgates (sluices) in section of canal or canalised river; turns wheel, actuating cog-wheels on each side of sluice gate, thus raising or lowering gate and admitting water to certain length of canal or river, or shutting-off water therefrom; excessive rainfall, opens or closes floodgate of canal or river, to prevent water to canalise or sluices leading to back-water or non-canalised section of river, to prevent water-level in canal rising over banks; keeps sluices clear of weeds with hand rake. floodgates man, floodgate attendant, floodgate tender; sluice attendant, sluice bridge attendant, sluice bridge man, sluice man, water runner; (i) see floodgate keeper; (ii) assists floodgate keeper *q.v.* when section of canal or canalised river controlled by latter is too large to be controlled by one man.

stead agesteman, see landing stage mate.

jetty man; has charge of jetty authority's property, and assists generally in work on jetty.

landing stage man, landing stage seaman; *cf.* man; receives mooring rope thrown to landing stage from approaching vessel; fastens rope to bollard or mooring post and removes again when vessel leaves quay;

places gangway in position and withdraws it when vessel leaves; cleans, fills, lights and trims oil lamps used on landing stage; hoists stern cone in bad weather; sometimes fills up spare time by odd jobs, e.g. rope splicing, repairing feeders.

landing stage mate; head stowman, mate of landing stage; takes alternate spells of duty with berthing master (731) g.v., usually being on duty during night; deputises for berthing master on other occasions when absent; is usually present at berthing of large vessels to see that fore and aft mooring ropes are properly made fast; directs and supervises landing stage men; other duties as for berthing master.

lock keeper, lock gate keeper, lock master; has charge of a lock, and is responsible for its care and upkeep; attends to opening and shutting of lock gates, or directs assistant engaged in so doing; calls dues; acts also as weir keeper g.v. when lock is near a weir.

lock man, lock attendant, lock gate man, lock tender; general and classed lock gates, under direction of lock keeper g.v.; keeps gates free from weed, etc., cleans machinery and assists lock keeper generally; also as weir attendant g.v. when lock is near a weir.

mate of landing stage, see landing stage mate.

pier head man, pier man, pier servant; works at head of pier, throwing ropes to incoming vessels, making vessels fast, placing landing stages in position, and doing other similar work under direction of pier master (731) g.v.

pier ticket examiner; is stationed at head or foot of gangway whereby passengers pass from boat to pier or vice versa; inspects tickets to ensure that they are available on that day and by that boat.

placeman on pier, placeman tickets to passengers, and performs general clerical duties on steamboat company's pier.

sluice attendant, sluice bridge man, sluice bridge attendant, sluice man, see floodgate man.

sluice bridge keeper, sluice bridge master, sluice keeper, sluice master, see floodgate keeper.

stage man, see landing stage man.

staitman; a landing stage man g.v. employed on a "stait" (*term used mainly on North East Coast, for landing stage whose coal vessels are loaded*); in addition to ordinary duties of landing stage man g.v., also sweeps-up coal dust and pieces of coal dropped during coaling operations and wheels them, in truck or barrow, to loading stocks.

stanch attendant, stanch keeper, stanch man, stanch master; a floodgate man g.v. in charge of floodgate which is shut to accumulate water for flushing a boat over a shallow in a stream.

swing bridge attendant, swing bridge keeper, swing bridge man, swing bridge master, see bridge man.

twentymen (staitmen); passes to seaman (735) g.v., on vessel, end of hose pipe which supplies vessels with fresh water; turns on watercock, reads meter and makes out bill for water supplied; cf. waterman (738).

water runner, see floodgate man.

weir attendant; assists weir keeper g.v. in opening and closing of sluices in weir, and in clearing gates of weeds; sometimes also executes minor repairs to weir, e.g. removes loose stones and replaces broken stones on face of weir.

weir keeper; is responsible to canal company, river authority, or other authority to whom weir belongs, for maintaining weir in good order; himself executes minor repairs or directs execution, and reports more serious defects to company or authority; opens and closes sluices on weir; removes weed, rubbish, etc., accumu-

lations from it and from protecting barriers; often also does work of lock keeper g.v.

740.—LIGHTHOUSEMEN AND CREW OF LIGHTSHIPS.

instructor of lighthouse keepers; instructs men starting work as lighthouse keepers g.v. in regulations as to lighthouse lighting, and maintenance and running repairs to lighthouse machinery; himself first undergoes six months training at Trinity House.

lighthouse keeper; light keeper; is in charge of a lighthouse and its crew; sees that lamp is trimmed at frequent intervals and is kept alight at prescribed times, that lenses are kept clean and lamp mechanism is maintained in order and that fog signals are given when necessary; is responsible for care of stores and of building.

light keeper; (i) see lighthouse keeper; (ii) see lightship.

lightship man; attends to lights and signal warning apparatus, and performs other general duties on lightship.

lightman; either a lightship man g.v. or one of lighthouse crew.

master of lightship; light keeper; is in charge of lightship and crew; sees that lights are kept burning at prescribed times and that fog signals or other warnings are given to passing vessels when required.

mate of lightship; assists master of lightship g.v. and acts for him when he is not on duty.

743.—STEVEDORES.

loader; general term for any person engaged in stowing cargo on any navigable craft (large, small, sea-going or otherwise); takes care to stow cargo in smallest possible space, neatly (to prevent shifting during voyage), uniformly (to avoid giving list to craft), and conveniently (so that cargo may be got out as quickly, especially if vessel to call at several places in succession); term chiefly indicates man loading large, canal boat, or other small craft engaged in inland navigation, coasting or short sea trades; sometimes specifically designated according to type of boat loaded, or place of loading, e.g. boat loader, canal boat loader, dockside loader, slate loader (quay); highest degree of skill required in stowing cargo on large sea-going vessels carrying mixed cargo and vitalising many ports; such work is generally done by stevedores g.v.

stevedore, stower, ship stower; a loader g.v. specially skilled in stowing cargo in ship's holds; is responsible to master stevedores (732) g.v. for proper stowing of cargo; ensures that it is not too tightly packed, that it does not shift during voyage, and that casks, etc., liable to burst or leak, are not so placed as to injure other cargo if any accident occurs, etc.; usually directs two holdswen (745) g.v. and himself assists them in stowing.

744.—COAL BOAT LOADERS AND DISCHARGERS.

bank rider, brakeman (coal drops), see wagon man.

hunker; tips coal from baskets or trucks into coal bins or bunkers as they are lowered by hoist; directs coal chute into bunkers; cf. trapper.

collier; general term for one of coal barge crew, who assists in unloading coal from barge to ship or to quay, includes hunker, trimmer, loader g.v.

discharger, coal boat; general term for any labourer engaged in discharging coal, including coal unloader, coal whipper g.v.; usually uses a crane fitted with a skip.

dog lad; attaches slings or dogs to coal baskets or trucks to enable them to be hoisted in or out of ship's bunkers.

hobblie, coal; a casual worker who assists coal trimmers g.v. in emergency.

hoist worker, coal (staithe); coal derrick labourer; fills containers with coal by shovelling, and attaches them to chain of hoist ready for slinging into ship's hold.

labourer, coal wharf (staithe); works on wharf where coal is discharged or loaded into ships either by hoist or tip; sweeps wharf, supplies coke to cranes, hoists and screwers, etc.

labourer on coal lighter, dock; fills, by shovelling, baskets or metal containers with coal prior to their being lifted by crane from lighter to ship, or trime coal in lighter to enable grabs to pick it up; cf. trimmer.

loader, coal; coal lumpster; one of a team of men engaged in sealing a vessel by carrying it in baskets or other receptacles along gangway to ship and discharging it into holds or bunkers.

trope runner (colliery wharf); under supervision of colliery wharf foreman (746) g.v., is engaged in hauling trucks to and from coal wharves and wharf in loading of ships with coal for export or carriage coastwise; as for trope runner (743).

aboutman, see teamer.

teamer, coal (staithe); in charge of horses which are used to draw trucks of coal under cranes and into tipping sheds.

teamer, coal teamer, coal tipper (staithe); shodstom; stands on coal boat and on to which wagon is run; at a given signal, swings bolts from hinged front or side of wagon, which is then mechanically tilted, causing coal to fall down chute into ship's bunkers.

trapper (staithe), trap lad; (Ym. see term) checks flow of coal from chute to ship's bunkers, by moving a lever which raises end of chute, to prevent coal being broken too small by falling too heavily, or to prevent one part of bunker being heaped up too high.

trimmer, coal trimmer; stands in ship's hold or bunker when she is being loaded with coal as cargo or as bunker coal; as each wagon is emptied down chute into hold by coal tipper g.v. trimmer (level) coal with shovel, so that it lies smooth and will not shift during voyage, causing ship to list; signals to tipper g.v. when ready to receive fresh load; cf. trimmer (736).

unloader, coal; fills baskets, or other receptacles, with coal in ship's hold, and fastens them to rope or chain ready for hoisting to quayside; cf. coal whipper.

twageman, wagon rider; bank rider, brakeman (coal drops); accompanies loaded coal wagons (running alongside wagon or hanging on by hand) down gradient along which wagon descends by gravitation; draws brake bar to check speed when necessary; at incline bottom, sometimes pulls-over point lever to allow wagon to run into coal boat sidings.

whipper, coal; unloads coal, with help of jib-boist (crane fitted with receptacle for coal), from vessels into large, lighter or railway wagon alongside; pulls levers to lower and raise receptacle to and from ship's hold for filling, etc.; at given signal from trimmer g.v., swings filled receptacle into position and discharges coal therefrom into large, lighter, or wagon.

wing man, coal wing man; a coal trimmer g.v. who trims coal in ship's hold round staithe.

745.—OTHER DOCK LABOURERS.

ballast heaver, ballast man, ballast tipper; (i) one of two men, or of gang, either on quay, or, on deck or in ship's hold, engaged in filling with ballast (sand or gravel) hold of ship going from one port to another without cargo ("in ballast"); or on quay, fills hanket or other receptacle with ballast, attaches crane sling thereto, and signals to crane-man or winchman (730) q.v. to hoist and swing it over ship; (ii) on deck or in hold, receives hanket, directs it over hold, tips contents into hold, and trims with shovel, so that it may not shift during voyage; (iii) engaged in discharging ballast, when ship's hold is to be cleared for cargo; or for (i), but operations reversed.

barge emptier, boat emptier; a carrier q.v. engaged in unloading barges, boats or other small vessels.

bobber, fish bobber; (East Coast term) who originates when fish porters were paid 1s. per hour; see **lumper, fish**.

boxman; crutche-man; a dock labourer q.v. who stands on dock quay, or in ship's hold, filling a box or similar receptacle with number of small separate packages; attaches slings to box and, when box is filled, latches it on to crane fall, then signals to hatchman q.v. or to winchman (730) q.v. for removal of packages to hold or quay.

bucketier, grain bucketier; a filler q.v. in dock shed, who fills sacks with grain discharged in bulk from ship, using an iron measure known as a bucket (dram or flat), in readiness for weighing.

carriage worker, general cargo worker; a general worker (as distinct from a specialist, e.g. fish loader, grain bopperman q.v.) assisting in loading or unloading of any cargo.

carrier; runner, **runnerman;** a porter q.v. who carries goods on back, shoulder or beside between quay, ship or warehouse, or about dock premises generally; usually specifically designated according to goods carried, etc., e.g. bag carrier, deal carrier (carrying deal planks), fish bag carrier, fruit carrier, putrop, prop, or pitwood carrier, potato carrier, timber carrier.

crutche-man, see boxman.

deal gangwayman; stands on gangway between ship and wharf or quay, and passes timber from a dock labourer q.v. standing on ship's deck to deal carrier q.v. on wharf or dockman; see labourer.

deckman; one of a team of men who open and shut dock gates by means of capstan; cf. **clough keeper** (749). **filler;** a dock labourer q.v. engaged in any filling operations, e.g. shovelling ballast, grain, in bulk into hankets or other receptacles in ship's hold or on quay in readiness for trucking away by dock labourers or for attaching to crane slings and subsequent tipping, cf. **tipper;** **ladder ballast heaver, grain bucketier** q.v.

fish dockman, fish loader, fish quay man; loads fish boxes on lorries or other vehicles at fish wharves; cf. carrier.

grain hopperman; adjusts position of hopper to emptying buckets or elevator, and moves hopper along rails during process of filling grain from ship into warehouse.

hatchman, hatchunder, hatchwayman; stands by hatch when ship is loading or unloading and signals to winchman (730) or to raiser q.v. when to set winch in motion to raise or lower goods over or into hold, signals to holdman q.v. when goods are about to be raised or lowered; stowages goods, with his hand, as they come within his reach on their way to or from holdman; employed on larger vessels only.

bobber (slang), see labourer; sometimes specifically designated, e.g. fish bobber.

holdman; a dock labourer q.v. working in ship's hold, carrying or wheeling goods to hatchway or from hatchway to stowage and stowing them under his direction; may also detach or attach slings, dogs or hooks of bails to receive goods, lowered into hold by winchman (736) q.v., or to unload goods therefrom.

labourer, dock labourer; dockman, dock porter, hobbler, quaysman; general term for anyone engaged on the various kinds of unskilled work in a dock, such as lumping, carrying or wheeling goods from or to ships, assisting stowage, in loading and unloading of vessels, etc.; when employed permanently by dock authority is called dock board labourer, permanent labourer, registered or "A" list labourer; when employed casually may be a preference or "B" list labourer, who has next claim for employment after permanent men; sometimes specifically designated according to kind of work done, e.g. stowage labourer.

lighter discharger; a dock labourer q.v. unloading goods from lighter to ship in harbour or fairway.

lotter; where goods are sold at dock or wharf (i) separates goods into "lots" corresponding with sale catalogue, taking care that all packages bearing similar mark are placed together; sometimes also makes small opening in package, to expose contents; (ii) separates goods, after sale into "lots" for despatch to purchaser;

(iii) grades incoming merchandise according to quality, e.g. sorts cases of oranges into lots 1 (ripest), and to be sold first, lots 2, 3, 4, etc.

lumper; as for carrier; generally used for men employed casually by stowage.

lumper, fish; bobber, fish bobber (East Coast); fish hobbler, runner; discharges fish from trawlers and drifters to quay; carries fish in "kts" or baskets.

pitwood roller-off; rolls logs of pitwood, from ship to wharf, down an inclined plane.

porter; a dock labourer q.v. who is engaged in carrying or otherwise transporting goods at docks; sometimes specifically designated according to place where employed or to goods carried, etc., e.g. canal porter, canal boat porter, cart porter, contract porter (paid per ton of goods moved), cotton porter, deal porter, dock warehouse porter, fish porter, grain porter, marine porter (carries luggage between train and ship), quay porter, quayside porter, rigger porter, sample porter, ship's porter, stone porter, timber porter, water-side porter, wine porter.

porter, dock, see labourer.

quaysman, see labourer.

rafter, raftman; timber posdman (dock); a dock labourer q.v. who works on timber rafts; receives logs of pitch pine, etc., from ship or barge, and makes up into rafts, by means of staples and chains, to be towed to timber pond in dock for storage.

rail gangwayman; adjusts, and makes secure, a railed gangway, from ship to pier or quayside, for passage of trucks; stands by to brake trucks, when necessary, and help them over points.

raiderman (dock); stands near ship rail during loading and unloading operations and signals to winchman (736) q.v. when to raise or lower goods; stowages, with his hand, goods as they come within reach on their way to and from hatchman q.v.; employed on larger vessels only.

rigger, ship rigger (for working cargo); a specially skilled dock worker employed by master stowage to rig up wire splicing, derricks, deck hoppers, chutes and other gear for loading and unloading ships; dismantles derricks, etc., when loading or unloading completed,

examines wire ropes and other gear from time to time to ensure that it is in working condition.

runner, runnerman; see carrier; sometimes further designated, e.g. corn runner, fish runner, salt runner; a dock labourer q.v. shovelling salt from hold at ship or bails for loading by crane; or filling tubs on land for loading.

shedman; a dock labourer q.v. engaged in sheds of docks or harbours.

ship labourer, ship quay labourer,

ship worker, as for labourer.

ship's discharger, see unloader.

slate picker (quay); a dock labourer q.v. engaged on slate quay, sorting waste from broken slates.

slate unloader (quay); a dock labourer q.v. specialising in carrying slates.

slitter; a dock labourer q.v. who separates, with a wooden slice, bags of nitrate of soda stuck together during voyage.

stecker (steamship); a dock labourer q.v. loading food supplies on steamship for victualling superintendent (738) q.v.

sub-ganger (dock); a working foreman, taking charge, under instructions and general supervision of ganger (740) q.v. of a gang of dock labourers q.v. with whom he also works.

teamer; one of a gang of dock labourers q.v. engaged in loading and unloading cargo which is shipped in bulk, from boats or bakkets; cf. coal teamer (744).

tideman, tide waiter (slate shipping); at each full tide, lowers or warps vessels in and out of small slate shipping harbours or docks, keeps dock gates and premises painted and in repair.

timber posdman (dock); see rafter, tipper; (i) carries or wheels goods (gravel, sand, chalk and other materials) to quayside and tips them down chute into hold of ship lying alongside quay; (ii) as for tipper, coal (744).

transport man, transport worker; general terms, covering all persons engaged in transport, in any capacity; usually implies a dock labourer q.v., but also covers drivers, carriers (710, 720) q.v., etc.

trimmer, ballast; arranges ballast in holds of ships so as correctly to balance weight, and to ensure against shifting on voyage.

trimmer, grain; "trins" grain with shovel in ship's hold, so that it can be easily unloaded by grain suction apparatus; drying, loading, spreads grain with shovels evenly in ship's hold, round stanchions, etc.

unloader, dockloads unloader; ship's discharger; a dock labourer q.v. principally engaged in unloading cargo.

water-side baler; a dock labourer q.v. specially engaged in handling bales of wool or other baled goods at water-side; or in repacking goods in bales for convenience in transport.

740.—OTHER WORKERS (not elsewhere enumerated).

large searcher; a dock police constable q.v. who inspects barges for stolen goods.

blacksmith (on board ship); carries out all smithy work needed in repairs on board ship; or for blacksmith (150).

boat house keeper; lets out rowing and sailing boats, gigs, and canoes on hire from a boat house; rats boats down slips to water, and hauls them up to boat house when not in use; cleans and keeps them in repair; cf. boat keeper (738).

cargo brander, see marker.

chainman; is in charge of chain stores and responsible for care, issue, stowing, etc., of chains, which are used in connection with work of cranes, etc., on quay or wharf, or for work on a

weighbridge man; weighs on weighbridge, records and checks weights of carts, lorries, railway trucks, etc., entering or leaving premises of harbour, dock, etc., company; furnishes weigh slips to carters (719) g.v.; hands in records for use of company's office staff.

weigher, weighing machine keeper, weighman; weighs, in dock shed or on quay, goods before loading into vessel, or after unloading; keeps records of weights (where weight taker g.v. is not employed); and checks quantities of goods weighed against ship's manifest; sometimes weighs weight tickets for tally clerk; sometimes specifically designated, e.g., grain weigher, jetty weigher, pitwood weigher, weighman at coal minis. weight taker; stands by weigher g.v. and, as latter calls out weights of goods, loaded into vessels or unloaded therefrom, records weights of each class of goods.

Sub-Order 4.—Other Workers in Transport and Communication.

750.—EMPLOYERS AND MANAGERS.

air superintendent; is in general control of pilotage arrangements in connection with air transport service, and is responsible for training of air pilots (752) and air navigators (752) g.v. in flying; approves candidates for training as air pilots or navigators, submits them for medical examination and re-examination in accordance with requirements of Air Ministry, and applies for Ministry's license for them when they are deemed to be sufficiently trained as pilots or navigators; supervises pilots and navigators, and prepares their roster of duties; receives their journey log-books after completion of trips, and sees that required records and observations have been properly entered up; provides pilots or navigators, as and when required, and is responsible for maintaining adequate staff of these men.

assistant engineer superintendent (aviation); supervises, under general control of engineer superintendent g.v. foremen and workmen in workshops where flying g.v. are overhauled and repaired, and is responsible for efficient performance of their work; supervises running tests of aero engines in workshops and on aeroplanes in aerodrome hangars, and issues instructions for their overhaul and repair when necessary; accompanies air pilots (759) g.v. on trial trips to test airworthiness of flying machines; assists engineer superintendent in scientific research, and in testing new devices and inventions; undertakes any other duties allocated to him by engineer superintendent, and deputises for him when he is absent.

assistant traffic superintendent (aviation); supervises staff in booking office engaged in weighing passengers, passengers luggage, parcels, goods, etc., and is responsible to traffic superintendent g.v. for seeing that total permitted load is not exceeded; supervises loaders and porters (759) g.v. engaged in loading and discharging aeroplanes; notifies air superintendent g.v. of any special journeys or of other changes in flying plans over various routes, so that necessary pilots (752) g.v. may be provided; assists traffic superintendent generally, and deputises for him in his absence.

engineer superintendent (aviation); ground engineer (aviation); is in general control of mechanical side of air transport services, and is responsible for maintaining aero bodies, engines, planes, rigging, passenger cabins, etc., in good working condition; sees that engine log

books and aircraft log books of each flying machine are kept up-to-date, and that mileage overflights is carried out in accordance with requirements of Air Ministry; is in charge of workshops where machines are overhauled and repaired, and directs and supervises staff employed therein; provides air mechanics (346) g.v. to accompany pilots (752) g.v. on air routes where insufficient provision is made for attending to machines at terminal aerodromes; prepares aeroplanes for inspection by officers of Air Ministry, with a view to issue of certificates of airworthiness; tests new devices and inventions in connection with mechanical side of air transport, and carries out scientific research with a view to effecting improvements in flying machines.

ground engineer (aviation), see engineer superintendent.

traffic officer, traffic superintendent (aviation); is in general control of commercial side of air transport services; plans air routes, and places machines on routes in accordance with requirements of traffic; is responsible for advertising arrangements, and supervises work of canvassers (774) g.v. engaged in obtaining passengers for goods; is responsible for loading of aeroplanes, and for seeing (before aeroplane starts) that permitted load, as stated in license, is not exceeded; is responsible for seeing that Customs, passport and immigration regulations are fully observed.

751.—FOREMEN.

assistant inspector of messengers (Post Office); is in charge of section of telegraph messengers (758) g.v. and is responsible for discipline, time-keeping, and allocation of duties and work.

assistant inspector of postmen (Post Office); in Provinces, carries out any sectional duties assigned to him by inspector of postmen g.v., e.g., supervising (under general control of inspector) postmen (753) g.v. attached to a head office or substation sorting office, in work of defacing and stamping letters, and sorting them into district and street order in readiness for delivery; assists inspector in maintaining punctual and expeditious collections and deliveries of letters, parcels, and telegrams, and in external investigations, under instructions from inspector into complaints regarding postal delays, late deliveries, missing letters, etc.; periodically walks postmen's rounds to check time required for performance of duties, assists inspector of postmen g.v. generally.

assistant supervisor (Post Office telegraphs); supervises a group of telegraphists (755) g.v. and is responsible to supervisor g.v. for work of section.

assistant supervisor (Post Office telephones), as for assistant supervisor (Post Office telegraphs).

foreman porter, see head porter.

head messenger; is responsible for allocation of duties of messengers (758) g.v., in Government offices, banks, insurance offices, and other establishments in which a large number of messengers are employed, and for their time-keeping and discipline; fixes messengers' rounds, so that correspondence, etc., is cleared at regular intervals and is promptly forwarded; is responsible for courteous behaviour of messengers, and keeps time records of messengers and sometimes makes out weekly pay sheet for use of pay office in paying messengers.

head porter (Post Office); foreman porter; (London) supervises work of Post Office porters (759) g.v. in loading and unloading mail bags into and from mail vans or trucks at railway stations or sorting offices; is responsible to overseer (G.P.O.) g.v. for expeditious handling of mail-bags.

head postman; (London) is responsible to overseer (G.P.O.) g.v. for supervision of postmen (753) g.v. at large sorting office; duties as for assistant inspector of postmen but controls smaller staff.

inspector of messengers (Post Office); is in charge of all telegraph messengers (758) g.v. in an area; often done by inspector of postmen g.v. assisted by one or more assistant inspectors of messengers g.v.

inspector of postmen; in Provinces, is responsible to postmaster for control of postmen (753) g.v. in postmaster's district, and for supervision of their work; in consultation with postmaster, prepares roster of postmen's duties; sees that collections and deliveries of letters are carried out punctually and with reasonable speed, in accordance with roster; investigates complaints of postal delays, late deliveries, missing letters, etc., or directs assistant inspector g.v. to investigate complaints, and furnishes reports thereon to postmaster; sometimes visits sub-sorting offices in district to see that work there is being efficiently carried out; sometimes does work of inspector of messengers g.v.

office keeper and inspector (Post Office); acts as head messenger g.v. at Post Office Savings Bank.

overseer (G.P.O.); is responsible to postmaster or superintendent for supervision of sorting clerks and telegraphists (755) g.v. at large post office, and sees that their duties are properly carried out in accordance with roster, and with reasonable expedition; when volume of work demands, applies to postmaster for permission to work overtime or puts in request for extra staff.

overseer of mail bag apparatus (Post Office); is responsible for maintenance, in a state of efficiency, of mail bag apparatus (by which mail bags are dropped from travelling post offices or mail trains, or picked up thereby); travels on mail trains to make periodical inspections of apparatus on sorting carriages attached to mail trains, and reports defects to railway companies for attention; supervises installation of apparatus by side of railway lines, and instructs local staff as to its manipulation by giving demonstrations.

overseer of sorters (Post Office); supervises sorters (753) g.v., allocating duties and dealing with rush periods and emergency work.

sergeant commissioner (Post Office); a member of Corps of Commissioners hired by Post Office, who takes charge of a section of commissionaires (758) g.v. and is responsible for their punctual and regular attendance, for filling vacancies occasioned by illness, or other causes, and for their work and conduct generally.

supervisor, night telephone; a male supervisor g.v. taking night duty at one of the principal telephone exchanges.

supervisor (Post Office); allocates duties of telegraphists (755) or telephonists (755) g.v.; deals with records of sick leave, and routine staff matters; maintains discipline; deals personally with complaints.

752.—AVIATORS.

aerobaut; balloonist; ascends in basket of balloon; by means of valve, allows gas to escape, and thus causes the balloon to descend or lets out ballast, to lighten balloon and cause it to ascend; reads meteorological and other instruments; keeps log, maintaining a continuous record of voyage.

aviator, see pilot.

balloonist, see aerobaut.

cockswain of airships; *navigator* (airships); is responsible for navigation of airships; reads instruments recording altitude, wind velocity, etc.; observes clouds and determines altitude for most favourable airway; steers course and regulates speed by instructions to engineers.

navigator, air navigator; an air pilot *g.v.* specially trained in reading instruments which indicate altitude, wind velocity, etc., and in observation of weather conditions generally for plotting air-liner or aeroplane along most favourable airway; accompanies air pilots in training, and advises them how to manipulate controls so as to keep an even keel under varying weather conditions; takes air-liners on new routes, and maps out courses for air pilots to follow; accompanies air pilots on unusual routes to advise and assist them in navigation of flying machines.

navigator (airships), *see* cockswain of airships.
paces, *aeroplane pilot*, *air pilot*, *aircraft pilot*, *airship pilot*; a holder of Air Ministry's license who pilots flying machine; controls, by hand, direction column or wheel, and moves rudder bar with foot, to determine, by movements of ailerons and rudder, the elevation and direction of flight; opens and closes throttle valve of engine, to control speed and attends generally to running of engine; reads map and compass, and observes features of land or sea traversed (if visible) to see that he is keeping straight course; receives and transmits messages by wireless en route; sometimes also makes meteorological observations en route, records wind directions and velocities, temperatures, etc.; is required to keep log book, recording times, mileage, working of engine and of controls, mishaps or other unusual occurrences, etc.; hands in log book to office of air superintendent (750) *g.v.*

753.—POSTMEN AND POST OFFICE SORTERS.

allowance deliverer; part-time worker who performs duties of postman *g.v.* for less than three hours daily.
assistant head postman; assists head postman (751) *g.v.* in supervision of postmen but otherwise performs the ordinary duties of a postman *g.v.*
auxiliary postman, auxiliary postwoman; performs part-time or seasonal duty as postman *g.v.* during periods of heavy posts, e.g. Christmas time.
auxiliary sorter, or for auxiliary postman.

letter carrier; (i) (G.P.O.) obsolete term, *see* postman; (ii) carries and makes personal delivery of letter or package travelling, on sender's instructions, by tram, rail, ship, etc.
postman, postwoman; *letter carrier* (G.P.O.); delivers letters and parcels to houses, offices, etc.; collects letters from pillar-boxes and conveys them to sorting office; frequently performs primary sorting of letters and parcels (*see* sorter); faces up letters in street order; in rural and smaller urban areas, meets mail trains, and collects and despatches mail bags.

rural postman, a postman g.v. working in rural area, also *trie stree*, etc., in pouch for sale on round; *obsolescent*.

sorter; (London) receives incoming mail bags, breaks seals, opens bags, and sorts contents (letters, parcels, etc.) according to districts for delivery by postman *g.v.* or for despatch to sub-sorting offices where they will be further sorted; sorts outgoing mails, and makes up and seals mail bags labelled for London districts, for provincial towns, for places abroad, etc.; sometimes specifically designated, e.g. *letter sorter*, *parcel sorter*.

754.—WIRELESS OPERATORS.

marconi operator; a wireless operator *g.v.* in employment of Marconi Wireless Telegraph Company.

watcher (radio-telegraphic); *see* wireless watcher.
wireless operator, wireless telegraphist; is in charge of, and responsible for, the efficient working of wireless telegraphic instruments on board ship or at any transmitting or receiving station; receives and decodes incoming, and transmits outgoing, messages; carries out minor repairs and adjustments to installation; holds certificate of proficiency.

wireless telegraph operator (Post Office); operates wireless apparatus to transmit and receive messages.
wireless watcher; *watcher* (radio-telegraphic); assists wireless operator *g.v.*, when latter is off duty, by "listening in" for distress or other signals; is not required, and usually is not competent, to transmit and receive messages, or carry out any adjustments of repairs to installation; frequently is an apprentice learning wireless telegraphy.

755.—OTHER TELEGRAPH OPERATORS.

handotist (G.P.O.); a telegraphist *g.v.* transmitting messages by means of handot machine, whereby varying messages, conveyed by operator's fingers to a key board, are transmitted over wires to receiving office, where message is automatically transcribed in printed characters on revolving paper tape.

cable operator; as for telegraphist, is service of cable telegraph company, operating telegraph instruments by which messages (largely in code or in foreign languages) are transmitted and received, cable to or from distant countries; is often required to spend part of term of service at stations abroad.

counter clerk and telegraphist (Post Office); is employed in London branch post offices to sell stamps, postal orders, etc., and to receive parcels, registered letters, telegrams, etc., to pay out pensions, etc., to transact business connected with the Post Office Savings Bank and telephone service, to issue licences, etc., and to operate telegraphic instruments for transmitting and receiving telegrams.

gellist (G.P.O.); a telegraphist *g.v.* who perforates tape with message by means of a key board, and passes perforated tape through machine ("gell" machine) whereby message is transmitted over wire to receiving office.

news distributor; a telegraphist *g.v.* in the Central Telegraph Office engaged on duty involving correct distribution of press messages received for transmission.

probationary telegraphist; a telegraphist *g.v.* during probationary period of appointment; works under experienced telegraphist while duties are being learned.

relay clerk, obsolete term, see repeater officer.

repeater officer; *relay clerk*; in charge of telegraph repeater instrument at relay station; watches correct functioning, makes necessary adjustments and renders periodic reports.
sorting clerk and telegraphist (Post Office); is employed in provincial post office as sorter (751) *g.v.* and/or telegraphist *g.v.*, and/or counter clerk *g.v.*

telegraph clerk; *unofficial term*, may be telegraphist or counter clerk and telegraphist in London, or sorting clerk and telegraphist *g.v.* in provinces.

telegraphist (Post Office); is employed in the Central Telegraph Office, London, to operate instruments for transmitting telegrams and cablegrams; sometimes designated according to the type of apparatus

used, e.g. *handotist*, *gellist g.v.* in branch post offices, telegraphic duty is performed by counter clerk and telegraphist *g.v.*
telegraph operator; operates telegraphic instruments for transmitting and receiving telegrams and cablegrams.

756.—TELEPHONE OPERATORS.

call office attendant (Post Office); is in attendance at public telephone call offices to assist users by obtaining required number, etc.; collects fees and holds general charge of the telephonic instruments.

car-taker-operator (Post Office); resides on premises of a small telephone exchange, and performs part or whole duties of telephonist *g.v.*
exchange attendant (Post Office); agrees to provide accommodation for small telephone exchange on his own premises and acts as telephonist *g.v.*

night and Sunday telephone attendant (Post Office); performs night and Sunday duty as telephonist *g.v.* at small telephone exchanges.

night operator, night telephonist (Post Office); performs night duty as telephonist *g.v.* at large telephone exchanges.

telephonist (Post Office); operates switchboard in telephone exchange, during day time, to make connections between instruments of subscribers and other persons using telephones.

757.—LIFT ATTENDANTS.

carrier, elevator attendant (textile mills); *see* hoist attendant.
hoist attendant, hoistman; carrier (textile mills); *elevator attendant* (textile mills); in textile trades, works hoist or lift (by hand, hydraulic or electric power) to carry up or down bobbins, etc., from one part of mill to another; frequently done by bobbins carrier (359) *g.v.*; in grain sailing and waiting trade, works hoisting apparatus (usually by hand) whereby sacks or bags are raised to or lowered from floor to floor of mill or malt-house; in other industries, operates hoist or lift (by hand, hydraulic or electric power) for raising and lowering goods and/or workers from one level of factory, etc., to another; sometimes specifically designated according to kind of hoist worked, e.g. *hydraulic hoistman*; *cf.* lift attendant; *cf.* hoist engine man (350).

lift attendant, lift boy, lift girl, lift lad, lift man, lift worker; operates and controls levers of an electric or hydraulic lift, working between different floors of a business house; *cf.* hoist attendant.

758.—MESSENGERS.

assistant head messenger (Post Office); is in charge of under-post messengers *g.v.* allocates duties, maintains discipline, and is responsible to head messenger (753) *g.v.*
attendant (Govt. Dept.); assists head of technical section in a museum, gallery, etc., by cleaning and shifting exhibits, keeping records of permanent and loan exhibits specimens, etc., distributing files, letters, etc., and running messages; usually supervised by a senior attendant called *chief attendant*.

baker's boy; barrow boy; assistant baker's vanman or barrowman (776) *g.v.* on his rounds by delivering loaves at customers' houses or by taking charge of horse and van while baker's vanman interviews householder; *also* as errand boy *g.v.*

bank messenger; carries pouches containing bills of exchange, banker's drafts, cheques for clearance, etc., between banks and other banks in London and communications between head office and suburban branches of

own bank; carries bullion and boxes containing customers' valuables or securities to and from rails in strong room; loads and unloads bullion into and from taxi-cab or other vehicle, and accompanies clerk in charge of bullion on journey in vehicle; in small branch banks, sometimes lights and attends to office fires or heating apparatus, etc.; sometimes also acts as resident caretaker (931) g.v. and is responsible for cleaning of bank.

barrow boy: (i) see baker's boy; (ii) an errand boy or shop boy g.v. delivering goods with help of hand barrow.

book collector: receives from book-seller (770) g.v. list of books not in stock, ordered by customers, and goes round to publishers to obtain them; usually delivers books which are however, sometimes fetched by collector's boy; g.v.; pays publishers for books, in cash, at trade prices, unless employer had running account with publisher; cf. book publisher's collector (942).

book deliverer: delivers books from a circulating library to private houses; usually rides bicycle carrier.

boy messenger: posts letters, despatches, telegrams, delivers messages and light parcels, cleans and fills ink-pots and does similar odd jobs in banks, insurance offices, business houses, etc.

boy messenger (Post Office): (i) see telegraph messenger; (ii) a messenger g.v. working inside G.P.O.

bungee lad: a milk boy g.v. who helps bungee man (770) g.v. in delivering milk from milk float.

collector's boy: assists book collector g.v. by fetching, from publishers, usually in a cycle carrier, parcels of books which are too heavy to be carried by hand; is usually employed part time on other duties, e.g. packing parcels of books, delivering parcels of books to customers.

colliery letter boy, colliery post boy: a boy messenger g.v. employed by colliery company.

commisnaire: usually a member of the Corps of Commisnaires employed to undertake messenger work of considerable responsibility, e.g. bank messenger g.v. will attend at entrance of hotels, theatres, cinemas, banks, insurance offices, business houses, etc., to direct and assist enquirers, keep out undesirable persons etc.; cf. attendant, cinema, theatre (889), door attendant (917).

commisnaire (G.P.O.): a member of the Corps of Commisnaires engaged by G.P.O. to deliver telegrams during night.

delivery boy, see errand boy.

district messenger: licensed messenger; delivers messages, letters, fetches and delivers parcels, makes purchases on behalf of customers, pilots them to required places, stands in theatre queues, and performs services of a varied character; is attached to District Messenger and Theatrical Ticket Co. Ltd., who lend him services, according to a specified scale of charges, to the public.

doctor's boy: delivers medicines, prescriptions, etc., to patients' houses; frequently acts, in addition, as page boy (900) g.v. at surgery.

errand boy: delivery boy, parcel deliverer, shop boy; (i) delivers goods from a retail shop, warehouse, etc., to customers' premises on foot, or by bicycle, tricycle carrier, or van; runs errands, delivers bills and accounts; sweeps and dusts shop or warehouse; takes down shutters, cleans brass and windows, etc.; (ii) runner, errand runner, froflier; takes messages, fetches and carries tools, materials, refreshments, etc., for employees in factories and workshops, from one room or department to another; sometimes specifically designated, e.g. cycle errand boy.

errand girl; runner, small runner, trotter; as for errand boy, but usually delivers goods on foot only; in clothing trades, is sometimes employed as matcher (429) g.v.

girl messenger (Post Office): obsolete, see girl probationer.

girl probationer (Post Office): girl messenger; performs minor duties, such as carrying forms and papers, etc., in headquarter departments of Post Office; attends compulsory classes to qualify by examination for higher appointments.

insurance messenger: carries documents (policies, deeds, mortgages, etc.) from own insurance office to other insurance offices, or to banks, etc., or from head office to district offices, or vice versa, and performs other duties of messenger g.v.; sometimes also acts as resident caretaker (921) g.v. and is responsible for cleaning and heating of office.

licensed messenger, see district messenger.

messenger: (i) carries messages, parcels and documents, sorts and delivers files and papers; directs and escorts enquirers; sometimes acts as commissnaire, porter (759), doorkeeper (917) g.v.; in Government offices, sometimes performs duties of a quasi-clerical nature; (ii) in some clothing trades, sometimes does work of matcher (429) g.v.; sometimes specifically designated, e.g. dock messenger.

milk boy: assists milk deliverer (770) g.v. on his rounds or himself acts as deliverer; collects empty bottles and cans from customers' houses; in intervals between rounds, assists at work in washing bottles, cans and churns.

night messenger: (i) a district messenger g.v. employed on night duty; (ii) a bank messenger g.v., or other messenger, employed on night duty as night watchman (963) g.v. patrolling premises, attending to telephone, etc. office orderly; a civilian employed as messenger g.v. in a military office.

parcel deliverer, see errand boy.

portress (for commercial firm), as for errand boy.

pot boy (builders, etc.): fetches beer for workers on buildings, works of construction, etc.; boils up water for tea, etc.

runner, small runner: (i) see errand boy; (ii) see errand girl.

sample boy: acts as messenger g.v. to commercial traveller (773) and usually also carries samples; cf. bagman (759).

shop boy, see errand boy.

showroom page: a messenger g.v., usually a girl, waiting on showroom assistants (775) g.v. in drapery, millinery, etc., establishments.

submarine company's messenger: as for telegraph messenger, delivering cablegrams received by cable company.

tailor's shop girl; errand girl g.v.: carrying material and finished garments between tailoring workshop and wholesale or retail bespoke tailor.

telegraph messenger (Post Office): boy messenger; delivers telegrams, and takes back reply (if any); attends compulsory classes to qualify by examination for higher appointments; trotter; (i) see errand boy; (ii) see errand girl.

tube messenger: takes written messages, and other documents from tube attendant (769) g.v. to destination in works or large offices; sometimes also does work of tube attendant (769).

walter (Stock Exchange): a messenger g.v. who delivers telegrams and other communications to members on floor of Stock Exchange; sometimes also acts as doorkeeper (917) g.v.; waters floor periodically with watering can to lay dust; after closing of Exchange, sweeps up litter from floor and puts it in bins for removal.

759—PORTERS (not elsewhere enumerated).

auxiliary porter (Post Office): as for auxiliary postman (753); for duties see porter.

bridge porter, see town porter.

bagman (Post Office): sorts and checks returned mail bags, and issues them as required.

bagman: barrow man, sample man, sample carrier, travellers' porter; carries samples for commercial traveller (773) g.v. by hand or by truck; may be attached to outdoor staff of commercial traveller or may work on own account as out porter g.v. at railway station; accompanies commercial traveller on his rounds and assists him in unfastening and fastening packages of samples.

bagman, assistant: in charge of bagmen g.v. attached to large commercial hotel, and is responsible for their timekeeping and discipline; allocates bagmen to commercial travellers (773) g.v. and keeps records of their hours of duty; furnishes daily records of work worked by bagman, to cashier (939) g.v.; is responsible for housing of barrows; sometimes also does work of bagman g.v.

coal porter: during winter months, carries coal (in buckets, sacks, etc.) from colliery to separate rooms of hotel, or from office, block of flats, etc.; sometimes also removes ash raked out from fireplaces by charwomen (922) g.v.; is usually employed in other duties, e.g. window-cleaning, etc., during summer months; cf. coal passer (970).

deal porter; timber carrier, timber receiver, timber porter: carries boards, joists, etc., from railway wagons to timber yard, and stacks them in piles as arranged that air circulates freely between boards, or carries timber from timber piles to saw mills or to machine shops.

fellowship porter: a fish porter g.v. who is a member of Fellowship of Porters of Billingsgate, London.

fish porter: a porter g.v. working in or around a fish dock or market; carries on shoulder or wheels in truck, barrels, baskets or boxes containing fish from one part of dock or market to another, or to carts, lorries, railway wagons, etc., to be loaded.

fruit porter: a porter g.v. working in or around fruit market; duties as for fish porter.

furniture porter: (i) (sole room) a porter g.v. employed in moving furniture about, in sale rooms, for display to customers; removes selected goods to delivery van and replaces other furniture in store or show room; (ii) (depository) a porter g.v. carrying furniture from van to store and vice versa; packs and stores furniture away with protective wrappings, etc.; cf. furniture remover (946).

labourer (Post Office stores): does unskilled work of any kind in or around Post Office Stores; loads and unloads vans; carries material, tools, etc., as required.

licensed porter, see town porter.

light porter, see luggage porter.

loader (air liner): a porter g.v. specially skilled in stowing luggage and goods on air liner; assists passengers to enter cabin of air liner, and accommodates them in seats according to their respective weights, so as to balance weights on each side of cabin as far as possible; stows passengers' luggage and goods in luggage chamber, so that packages will not shift on journey, taking care also that packages are stowed evenly on either side, to balance liner.

luggage porter, baggage carrier; light porter, vat porter, outside porter: porter g.v. usually licensed (see town porter), who pilots for hire outside railway stations, piers, quays, etc. or collects luggage at hotels, houses, etc., by request.

luggerman (chilled stores), as for meat porter.

market porter; general term for a porter employed in any market carrying goods to salesman's stand or from stand to customer's conveyance, includes fish porter, fruit porter, meat porter.

meat porter; butcher; a porter q.v. who unloads carcasses of meat from railway wagons, barries, etc., on arrival in market, carries carcasses on shoulders and hangs them up on hooks in stalls or salerooms.

nut porter, outside porter, see luggage porter.

packer and porter; fetches and carries stores or raw material in factories; packs and unpacks, loads and unloads, incoming and outgoing goods.

packer and porter (Post Office); packs and unpacks stores in Stores Department; fetches and carries stores by hand or on truck.

parcel post porter (G.P.O.); a porter (Post Office) q.v. carrying parcels and mail bags containing parcels.

pitcher, see meat porter.

porter; (1) moves and carries cases, packages, etc., in store and loads delivery van; carries, or pushes or draws on truck or barrow, stores, packages, cases, raw materials, manufactured or semi-manufactured articles from one part of warehouse, shop, etc., to another; (2) conveys luggage, packages, hampers, etc., to and from railway stations, hotels, houses, etc., by hand, truck, barrow or vehicle; is sometimes required to take out a licence and wear a badge with a distinguishing number; sometimes specifically designated, e.g. barrow porter, delivery porter, shop porter, store porter, warehouse porter.

porter (Post Office); ties up, seals and conveys mail bags from one part of building to another; loads and unloads mail bags into and from van, and lifts to and from van out of or into trains; does heavy manual work in sorting office.

sample man, sample carrier, see bagman.

shore porter; a luggage porter q.v. attending at piers, quays, etc., to meet passengers at sea-port towns, timber carrier, timber porter, timber receiver, see deal porter.

town porter; lodge porter, licensed porter; a porter q.v. usually a luggage porter q.v. supplied with a badge by local authority or railway company and authorized to carry passengers' luggage from railway station or steamship wharf to private address, or to another station or wharf; cf. porter (706) who is employed within station.

trunk porter; a luggage porter q.v. who conveys, by hand or truck, passenger luggage from gas railway station to another in the vicinity.

traveller's porter, see bagman.

760—OTHER WORKERS (not elsewhere enumerated).

electric truck driver; motor truck driver; a porter (759) q.v. who uses and controls an electric truck in conveying goods, stores, etc., from one part of works, warehouse, etc., to another.

hydrogen worker; general term for workers producing hydrogen for airships, including stokers (351), water gas operators (363), hydrogen heater attendants (148), engine fitters (365), purifier attendants (398), and valve men (688) q.v.

motor truck driver, see electric truck driver.

pneumatic operator (G.P.O.), see tube attendant (Post Office).

tape attendant; removes tape-cut as required, tears off tape or separate items of information and sends by messenger to appropriate news department of newspaper office, etc.; in clubs, hotels, etc., pins sections of printed tape on notice board.

tube attendant (Post Office and other establishments); pneumatic operator (G.P.O.); receives carriers (containing bundles of telegrams or other documents) issuing from pneumatic tube, through which carriers travel from branch offices to head office or from one part of building to another; distributes them, by hand or through tube to appropriate section; dispatches carriers through tube by pulling lever which produces pneumatic action necessary for setting carrier in motion down tube.

ORDER XXIII.—COMMERCIAL, FINANCE, AND INSURANCE OCCUPATIONS (excluding Clerks).

Sub-Order I.—Commercial Occupations.

770.—PROPRIETORS, MANAGING DIRECTORS, MANAGERS OF WHOLESALE OR RETAIL BUSINESSES.

agent; an agent (1714) (q.v.) who deals in commodity or commodities, wholesale or retail, actually buying from manufacturer and selling directly or indirectly to customer; usually specifically designated, e.g. book agent, colliery agent, cycle agent.

agent, Bible Society's, see bible depot keeper.

agent, draper's, see draper, credit.

agent, dress, see dealer, wardrobe.

agent, antique, see dealer, antique.

artisan; a colporteur; a wholesale dealer or retail shopkeeper (q.v.) who sells oil and water colours, brushes, canvas, and other artistic requisites; usually retails pictures and prints as well.

baker, baker and confectioner, baker and pastrycook; a retail shopkeeper (q.v.) who sells bread and four confectionery; himself baker, or employs bakers (438) and pastrycooks (435) (q.v.) to make, and confectioners.

bible depot keeper; Bible Society's agent; a retail shopkeeper (q.v.) who sells bibles, texts, tracts, and religious publications; sometimes sells from private boxes instead of from shop.

bookseller, book-seller, book-keeper, bookseller; a retail shopkeeper (q.v.) who sells books, periodicals, etc. bookseller and stationer; a bookseller (q.v.) who also sells stationery and office requisites.

bootmaker; shoemaker; a retail shopkeeper (q.v.) who sells retail boots, shoes, puttees, etc. (sometimes hosiery); sometimes employs workers on premises or outworkers to undertake bespoke orders for boots, etc.; usually undertakes orders for repairs, employing repairers (112) (q.v.) or sending such orders to trade repairers for execution; cf. boot and shoe maker (412).

builders' merchant; a wholesale dealer and/or retail shopkeeper (q.v.) who sells materials for building purposes, e.g. bricks, cement, lime, builders' ironmongery, paint, distemper, wallpaper; may also hire out scaffolding plant, e.g. poles, boards, ladders.

butcher, carcase; a wholesale dealer (q.v.) who sells meat; usually purchases his cattle from farmers (911) or cattle dealers (q.v.) and instructs drovers (595) to deliver to slaughter on arrival by rail or road; employs slaughtermen (445) (q.v.) to kill and dress beasts; sells carcasses to wholesale or retail butcher.

butcher, pork; charcutier; a retail shopkeeper (q.v.) who sells pork, sausages, meat pies, brown, trotters, black and white puddings, etc.; sometimes makes and cooks pies, etc. on premises; cf. small goods maker (446).

butcher, retail; a retail shopkeeper (q.v.) who sells meat, sausages, etc.; sometimes, particularly in country districts, himself kills cattle, sheep and pigs in his own slaughterhouse, or employs slaughtermen (445) (q.v.); often manufactures sausages, cf. sausage maker (446), and sells pork, cf. pork butcher; stores meat in cold chamber.

butcher, shipping; a wholesale dealer (q.v.) who supplies meat, vegetables, poultry, etc. for consumption on board ship. butcher, wholesale; a wholesale dealer (q.v.) who sells meat and meat offals; cf. butcher, carcase.

buttermilk; a retail shopkeeper (q.v.) who sells butter, cf. cream as makes it on premises; cf. butterer.

chaudrier; a retail shopkeeper (q.v.) who sells groceries, provisions, gas, oil, household goods, e.g. soap, candles, hardware, and a number also sugar, confectionery, books, stationery, mineral waters, etc.; cf. oil and colporteur.

chandler, corn; a retail shopkeeper (q.v.) who sells grain, oats, pulses, hay, straw, seeds and poultry feds and medicines, seeds, rice, tapioca, etc. also sells flour, biscuits, etc.; sometimes also sells wines, bottled and dried fruits, etc., and, less frequently, coal and coke; sometimes employs assistants to cut chaff, trim hay, etc. cf. shop assistant (776).

chandler, ship (Seafarer); licensed broker, marine shore dealer; a retail shopkeeper (q.v.) who sells cordage, canvas, ship's stores, and other furniture.

chandler, tailor; deals in candles, tallow, fat, etc.

charcutier, see butcher, pork; term used in foreign countries, e.g. Bala Llanoch.

cheesemonger; a retail shopkeeper (q.v.) who sells cheese, butter, eggs, and other provisions; cf. merchant, provision.

chemist, chemist and druggist; druggist; (1) a wholesale dealer (q.v.) in fine chemicals and drugs who may not necessarily have passed Pharmaceutical Society's qualifying examination; (2) a retail shopkeeper (q.v.) who sells fine chemicals, drugs, poisons, patent medicines and sundries, e.g. tooth brushes, and who, unless a member of a firm, or partnership or limited company, under separate conditions, must have passed the Pharmaceutical Society's qualifying examination.

chemist, dispensing, see pharmacist.

chemist, homoeopathic; a chemist (q.v.) specializing in sale of homoeopathic remedies.

chemist, pharmaceutical; pharmacist; a chemist (q.v.) who has passed formal examination of the Pharmaceutical Society.

clockmaker, see watchmaker.

clothing; a wholesale dealer or retail shopkeeper (q.v.) who sells all kinds of ready-made clothing; sometimes also makes clothes to measure; cf. tailor, outfitter.

clothing, second-hand, see dealer, wardrobe.

confectioner; a wholesale dealer or retail shopkeeper (q.v.) who sells sugar confectionery (sweets); (North of England) a retail shopkeeper who sells flour (not sugar) confectionery.

contractor; a wholesale dealer (q.v.) who undertakes to supply to consumers certain commodities in bulk according to agreement; sometimes specifically designated, e.g. army clothing contractor, coal contractor.

dairyman; a retail shopkeeper (q.v.) who sells milk, butter, eggs, and other dairy produce; often employs roundmen (776) (q.v.); may also deal with milk churns, tipping milk into cooler, separator, etc., as for dairyman (446).

dealer, antique; antique dealer; buys old furniture, pictures, pottery, china, and other articles of value, direct from private owner or at auctions, etc., and sells to public; usually keeps showrooms for sale of antiquities; frequently repairs and restores antique articles or employs workers for this purpose.

dealer, cattle; buys and sells cattle; travels through country purchasing at cattle markets, etc. and sells to coarse butchers (q.v.) or to cattle farmers (911) (q.v.).

dealer, china and glass; a wholesale dealer or retail shopkeeper (q.v.) who sells china, glass or earthenware goods for household use.

dealer, cycle; a retail shopkeeper (q.v.) who repairs bicycles and bicycle accessories; usually keeps out bicycles on hand and undertakes repairs, generally employing assistants; cf. cycle repairer (229).

dealer, film art: a retail shopkeeper (q.v.) who sells pictures, prints, engravings, and similar productions; may sell china, glass or other works of art; may also buy and sell pictures for third parties and undertake commissions generally; sometimes frames pictures, employing picture framers (312) (q.v.).

dealer, horse: horse agent, or *couper*; buys and sells horses; travels through country effecting purchases, etc., arranging for transport of horses, buying direct from owners or at auctions, either on his own behalf or on commission for clients; sometimes owns grazing farms for maintenance of animals awaiting purchase; (animal) also breeds horses, or horse breeder (911).

dealer, marine store: licensed broker (N. England and Scotland); (1) buys and sells naval ordnance, bombing, rags, knives, and other goods of warlike nature; usually sells wares when purchased by land, grade, etc., repairs and mends sails, etc., or employs workmen for these purposes; (2) in Scotland, see chandler, ship.

dealer, retail; retailer; retail trader; tradesman: a person who buys goods wholesale from a manufacturer, merchant or importer, and sells them direct to consumer from office, shop or warehouse; see shopkeeper, retail.

dealer, scientific instrument: a retail shopkeeper (q.v.) who sells theodolites, compasses, levels, etc., for professional use; may also be master scientific instrument maker (322) (q.v.) employing workshop hands.

dealer, stamp: see philatelist.

dealer, tailor's trimmings: see merchant, tailor's trimmings.

dealer, wardrobe: *dress agent, second-hand clothes;* a retail shopkeeper (q.v.) who sells all kinds of out-of-date clothing; buys second-hand clothing by calling from house to house, and at auctions; purchases also from tailors; sells from private house, shop, store or market stall; repairs garments ready for sale as necessary.

dealer, wholesale; seller, trader: usually supervises conduct of a business distributing commodities to other wholesalers or directly to local consumers; purchases goods, often on sample, from importers, brokers, manufacturers, producers or other wholesalers, sometimes introducing brokers for this purpose; may import commodities direct, employing buying agents in British Dominions, colonies or foreign countries; transfers goods to own warehouses by own transport or by instructive to common carriers, or publicly in public warehouse until sale is effected; usually employs staff to undertake duties in connection with purchase, sale and despatch of goods, including correspondence and book-keeping; may employ commercial travellers (775) or agents (771) (q.v.) to obtain orders and to sell on his behalf, or advertise, employing special staff or advertising agents for this purpose; displays samples of goods in showrooms for convenience of intending purchasers and arrange, by personal interviews with buyers (773) (q.v.), prices and terms of contract; if any; gives instructions for delivery of goods to purchasers by common carriers or his own transport, if such facilities are not provided by purchasers; in own warehouses may undertake with necessary staff certain manufacturing processes, e.g., grinding, blending, roasting, mixing, filling, bottling, packing, in addition to usual warehouse operations of unpacking, packing, labelling, weighing, checking, etc.

draper: a wholesale dealer or retail shopkeeper (q.v.) who sells mill, linen, and custom piece goods and other drapery.

draper, credit; draper's agent, John-son-ferthighly (Jany), Scotch draper, Scotchman (Jany), talliesman, travelling draper: sells drapery goods on instalment system of payment, selling on customers at their houses, or employing talliesman (774) (q.v.), may direct retail shop, but usually works from private house.

draper, tailors: a *rose draper* (see draper), specialising in sale of cloth, linings, trimmings, buttons, thread, and tailors' workshop requisites to tailors, dressmakers and general public.

druglist, see chemist.

drysalter; (1) a wholesale dealer, often an importer (q.v.), who deals in crude dry chemicals, dyes, resins, shellacs; (2) a retail shopkeeper (q.v.) who sells crude dry chemicals, paint ingredients and colours; usually also sells other goods, e.g., ironmongery, garden tools, lamps, soap.

exporters: buy goods from manufacturers, importers and factors, and sell to firms in colonies or foreign countries; purchase and sell on own behalf, directing warehouse staff for storing, packing and exporting goods; or employ agents; or accept commissions to buy and to sell abroad goods ordered by customers, does not necessarily handle goods but is responsible for clearing bills of lading unless actual shipping relegated to a shipping agent (730) (q.v.); usually does not own vessels.

factor, or agent, but usually is middleman in wholesale business; of factor (771).

factor, boot and shoe; a wholesale dealer (q.v.) who sells boots, shoes and slippers; may also sell grinder.

fancier (bird, dog, etc.): buys and sells birds, dogs, cats, or other animals, usually from a shop; sometimes also breeds them.

fishmonger; (1) a retail shopkeeper (q.v.) who sells fish, rabbits, poultry, etc.; usually employs blockman (775) (q.v.) to fillet fish, etc., for customers; (2) sells fish, etc., from stall or from barrow or small cart calling from house to house.

florist; a retail shopkeeper (q.v.) who sells cut flowers, plants, bulbs, seeds, etc., retail from a shop or stall; makes up bouquets, funeral wreaths, etc., and sells specialise for this purpose; decorates parlours, concert platforms, dining tables, etc., to order; sometimes sells retail flowers, plants, etc., from stall in market place; often cultivates flowers, etc., in own nursery garden, or florist (615).

furnisher; a wholesale dealer or retail shopkeeper (q.v.) who sells furniture for household or office purposes, carpets, soft furnishings, chairs, glass, cutlery; as a retailer, may also undertake decoration or erection of residential or business premises, employing necessary staff.

furnisher, mill or factory with ready requirements; e.g., machine belting, oils, grease, nails, rivets, shuffling, machine parts, machinery manufactured or erected in own workshops, or first obtained from manufacturers (not himself); sometimes employs fitters (2410), etc., and sends such to factories requiring repairs to machinery, new erections, etc.; is also frequently an agent (771) (q.v.) for particular type of machine.

fruiterer; a retail shopkeeper (q.v.) who sells fresh fruit; usually also sells fresh vegetables, etc., of greengrocer; sometimes sells from stall or barrow in street or market place, and may call from house to house.

furrier; a retail shopkeeper (q.v.) who sells furs and fur garments; usually also undertakes repairs, cleaning and storage of furs; sometimes manufactures furs into garments for sale in own shop, employing cutters (3345), machinists (3352), liners (3352) (q.v.) or furriers (3342).

glazier; a wholesale dealer or retail shopkeeper (q.v.) who sells glass; usually also deals in hosiery, handkerchiefs and general outfitting.

goldsmith and silversmith; *goldsmiths, silversmiths, jeweller;* a wholesale dealer or retail shopkeeper (q.v.) who sells jewellery, silverware, silver and plated goods, watches and clockwork sometimes also repairs them, if necessary employing watch repairers (3323) (q.v.), etc.

greengrocer; a retail shopkeeper (q.v.) who sells fresh vegetables, and usually also fruit, etc., as *far fruiterer*.

grocer; a wholesale dealer or retail shopkeeper (q.v.) who sells tea, coffee, spices, condiments, sugar, dried fruits, rice, biscuits and similar articles.

haberdashier; a wholesale dealer or retail shopkeeper (q.v.) who sells haberdashery, e.g., linings, trimmings, tapes, pins, needles, thread, etc.

haggler, higgler; purchases poultry, eggs and dairy produce in country districts from farmers, poultry farmers (911) (q.v.), cottagers, etc., and sells to wholesale retailer or consumer.

hatter; a retail shopkeeper (q.v.) who sells hats and other headgear for men and boys, umbrellas, sticks, etc.; is usually also general outfitter (q.v.).

horse copper or copper; (English and Scotch district terms) see dealer, horse; **hostler;** a retail shopkeeper (q.v.) who sells hosiery and other knitted goods; is usually also an outfitter (q.v.).

importer; buys, either direct or through agents, raw materials, produce or manufactured goods, from colonial and foreign markets and sells to home manufacturers, manufacturers or retailers; trans-ports goods in own vessels and handles goods in own warehouses; operates through office and stores goods in public warehouse, packing, despatching, etc., of goods being done by wharfingers (732) (q.v.); usually sells from approved samples.

inspector (multiple shops), branch inspector; pays regular and surprise visits to branch shops of multiple shop firm; examines books, method of working, discipline, etc., and reports to firm's headquarters.

ironmonger; a retail shopkeeper (q.v.) who sells tools, household utensils, cutlery, general hardware, and iron country districts, agricultural machinery and seeds; often combines with trade of electrical engineer (503), hot water fitter (245) and gas fitter (233) (q.v.).

jeweller, goldsmith's, silversmith's, goldsmith and silversmith.

job buyer, jobber; buys job lots of goods (whichever or salvage stocks, etc.), or cattle at markets, auction sales, etc., and sells to retailers at direct to public.

Johnny-come-fortnightly (Jany), or draper, credit.

landale manager (collier); purchases coal at agreed price at fixed land; down into own pits and despatches to coal merchants (q.v.).

librarian (convoying); (1) lends books on payment of subscription or of deposit and small fee; (2) sells books, etc., from retail shops and submerges exchanges them for other books on payment of small fee.

licensed broker, firm and in North of England and Scotland, no dealer, marine store.

mercer; deals wholesale or retail in textile fabrics—silk, woolen, etc., of draper; more particularly deals in small wares.

merchant; trader, a wholesale dealer (q.v.) who buys goods wholesale from manufacturers or other wholesalers, and sells to other merchants or retailers; may, as *far dealer*, specialise usually specifically designated, e.g., leather merchant, hide and skin merchant, bull merchant.

merchant, coal; a retail dealer (q.v.) in coal or coke; purchases from mine owners, or landale managers (collier) (q.v.), discharging coal from coalds in own siding, and/or purchases from gas companies; sells direct to consumer on orders given at office by purchasers or by employing coal hawkers (776) (q.v.).

merchant, provision; a wholesale dealer or retail shopkeeper (q.v.) who sells bacon, lard, butter, cheese, eggs, tinned foods, and groceries; e.g., greener.

merchant tailor; a tailor (q.v.) who sells ready-made clothing and employs tailoring workmen; sometimes sells ready-made clothes.

merchant, tailor's trimmings; a tailor's trimmings dealer; a wholesale dealer (q.v.) in cloth and trimmings, e.g., linings, buttons, thread; supplies tailors, drapers (q.v.).

merchant, textile; buys textiles from textile grower (911), and sells them, sorted and made up into staves, to cloth manufacturers; usually employs textile clippers, sorters and sorters (369), and textile pressers (345) (q.v.).

merchant, wool; (1) a wholesale dealer (q.v.) who sells either English or imported wool; (2) wool *shop* (old English term); a wholesale dealer who sells raw Scotch wool; generally works in healthy Britain wool is grown; buys from farmers at fairs; classifies, e.g., type of wool (360), and sells from samples to wool exchanges, e.g., at Bedford.

milliner; a retail shopkeeper (q.v.) who sells hats and other headgear for women and children, sometimes employs assistants, e.g., milliner (465).

newspaper, newspaper agent; a retail shopkeeper (q.v.) who sells newspapers, magazines and other periodicals; usually buys from publishers on "sale or return"; frequently also sells tobacco, cf. tobacconist.

oil and colourman, oilman; sells paint, from shop or store, oils, paints, brushes, hardware, brushes, cleaning materials, etc., cf. chandler.

outfitter; general term usually applied to retail shopkeeper (q.v.) selling men's clothing, cf. dealer; sometimes also sells women's clothing, sports and games requisites, etc.; sometimes specifically designated, e.g. men's outfitter, sports outfitter, women's outfitter.

perfumery; sells perfumes from retail shop; often in connection with haberdashery (q.v.) or as adjunct to chemist's, druggist's, etc. business (q.v.).

pharmacist, see chemist, pharmacist.

qualified chemist; dispensing chemist; a qualified chemist (q.v.), wholesale or retail trade.

stamp dealer; stamp dealer; a retail shopkeeper (q.v.) who buys and sells used and unused postage stamps of all countries from retail shop or through post; may buy and sell private collections or merely sell same to collectors; also sells stamp collector's accessories, e.g. albums, mounts, etc.

stockbroker; (i) a wholesale dealer (q.v.) who sells poultry, game, rabbits from stall in wholesale market; (ii) a retail shopkeeper (q.v.) who sells poultry, game, rabbits, etc.; usually also sells fish, cf. fishmonger.

purveyor; a retail shopkeeper (q.v.) who sells usually food, provisions, etc.

retailer; (i) travels the country buying from farmers, peddles or stocks to sell in local markets; (ii) buys large quantities of corn, provisions, etc. in a market and sells again at a profit at or near the same spot.

retailer, see dealer, retail.

saddler; a retail shopkeeper (q.v.) who sells saddlery and harness (sometimes other leather goods also); usually makes saddles, etc., or repairs it, in attached workshop employing saddlers (344) (q.v.), etc.

sales engineer; a sales manager (q.v.) of engineering firm; is usually a qualified engineer.

salesman, see for merchant.

sales manager; in charge of sales department of a firm; controls and instructs commercial travellers (773) (q.v.); organizes advertising and his firm's display at trade or other exhibition; conducts correspondence on matters connected with sales; interviews prospective buyers; may himself solicit buyers.

Scottish draper, Scotchman (along), see draper, credit.

scrap broker; a wholesale dealer (q.v.) who buys scrap metal from ship yards, manufacturers, etc., and sells to other, usually smaller, manufacturers able to utilize same.

seedman; a wholesale dealer or retail shopkeeper (q.v.) who sells flower and vegetable seeds; usually deals also in cut flowers, plants, garden implements, etc., cf. seedgrower (153).

seller; (i) see dealer, retail; (ii) see dealer, wholesale.

shipper, or for exporter; sometimes owns one or more vessels in mercantile marine.

shoemaker, see bootmaker.

shopkeeper, retail; usually himself supervises conduct of a business distributing commodities direct to consumers; purchases goods from importers, wholesalers, manufacturers or producers, often from samples shown by commercial travellers (773) (q.v.) employed by such firms, or by visiting these concerns wherein samples are displayed; less frequently orders by post goods advertised in trade press; sells goods to consumers from shop; utilizes shop windows as a means of displaying goods to the public, and may employ specialists to dress windows; in large establishments, may advertise extensively in public press, employing large staff or an advertising agent (779) (q.v.) for this purpose or for preparation and issue of

catalogues, etc.; frequently has a warehouse on shop premises wherein stocks are kept and from which purchases are despatched; if necessary, delivers goods to customers by own conveyance, or gives instructions for delivery of goods by common carriers; in large establishments, instructs bands of department in routine policy, and employs staff to enforce duties in connection with sale, purchase, stockkeeping, despatch and delivery of goods; in smaller establishments or in one-man or family concerns, usually himself undertakes purchase, correspondence, book-keeping or other duties.

silkmaker; a mercer (q.v.) who sells mainly silk goods.

silversmith, or for goldsmith and silver-smith.

stationer; a retail shopkeeper (q.v.) who sells all kinds of stationery and office requisites; often combines with business of bookseller (q.v.); sometimes undertakes orders for printing which he carries out on his own or sends to printer (339) (q.v.) for execution.

stationer, fancy; a stationer (q.v.) who also sells fancy goods of paper, china, leather, etc.

stationer, law; a stationer (q.v.) who specializes in requirements of lawyers' offices.

straw plant collector; lays straw plant at markets from home-work, and sells to straw hat manufacturers; elsewhere, straw plant is largely imported.

sundriesman; a wholesale dealer (q.v.) who sells accessories incidental to his business; usually specifically designated, e.g. hairdresser's sundriesman, druggist's sundriesman, tobacconist's sundriesman.

tailor; a retail shopkeeper (q.v.) who sells bespoke and/or ready-made suits, overcoats, ladies' coats and skirts, etc.; for clothing made to measure, may also have workshop, or homeworkers, or may "give out" work to be made.

tallyman, see draper, credit; cf. tallyman (174).

tobacconist; a wholesale dealer or retail shopkeeper (q.v.) who deals in tobacco, snuff, cigars, cigarettes, and smoking requisites; (retail) often also sells walking sticks; holds State license.

trader; (i) see merchant; (ii) see dealer, retail, or wholesale.

travelling draper, see draper, credit.

trunk and bag maker; a retail shopkeeper (q.v.) who sells trunks, bags, etc. of leather, canvas, etc.; sometimes does repairs and/or makes trunks, etc., in attached workshop, employing trunk makers (346), etc.

vendor, or for merchant.

warehouseman, or for merchant; may also undertake to warehouse goods for other merchants.

warehouseman, Italian; a retail shopkeeper (q.v.) who sells edible oils, wines, macaroni, preserved food stuffs, etc., especially those of foreign origin.

watchmaker, watchmaker and jeweller; clockmaker; a retail shopkeeper (q.v.) who sells watches, clocks, jewellery, etc.; generally undertakes repairs in attached workshop, rarely makes his own.

wool assembler, see merchant, wool; cf. wool stapler (360).

771.—BROKERS, AGENTS, FACTORS (not elsewhere enumerated).

agent, commission agent; commercial representative; represents and takes orders for firm or firms in particular towns or district, working on own account on commission basis or as employee of one firm on salary and commission; sometimes specifically designated, e.g. African agent, carpet agent, commercial agent, manufacturer's agent; displays samples in own show rooms or from travelling bag; cf. commission agent (360).

trustee, confidential; makes enquiries and gives advice to firms as to strategy or otherwise of firms or persons with whom they contemplate doing business.

agent, educational, see agent, educational.

agent, emigration; arranges passages, etc., for intending emigrants; advises as to choice of country, giving all necessary information available; usually done by passenger agent or shipping agent (780) (q.v.).

agent, employment; employment bureau manager; keeps registers of vacancies notified by employers, and of applicants for employment; provides suitable introductions; takes fees for services rendered.

agent, literary; circulates authors' manuscripts among publishers or editors; negotiates business on acceptance of manuscripts, e.g. copyrights, fees, American productions; sometimes circulates literary work for a fee.

agent, Manchester; an agent (q.v.) acting for manufacturers of Manchester goods, e.g. cotton goods made in Manchester and district.

agent, mineral; arranges mining royalties on behalf of mine owner (345) (q.v.), draws up terms of mine leases and completes settlement with lessee, secures on owner's behalf that terms are carried out; sometimes collection of royalty rent or "fine" when same not paid into mine owner's account direct; is almost invariably a qualified mining engineer, cf. mine surveyor (307).

agent, naturalization; assists aliens to take out naturalization papers; presents declaration forms, prepares and inserts necessary advertisements in newspapers, undertakes correspondence with Government offices, referees, etc., leading up to granting of naturalization certificate.

agent, nursing; an employment agent (q.v.) specializing in the supply of nurses for private patients, nursing homes, hospitals, etc.

agent, passenger; passage agent, tourist agent; arranges passages by steamship, railway, motor coach, etc., for intending travellers; issues tickets; undertakes forwarding of luggage; obtains transport; changes money; cf. agent, emigration.

agent, patent; undertakes all kinds of business in connection with protection of inventions, trade marks and designs; draws up specifications and assists with registration, legislation, sale, etc.

agent, pedagogue; school agent; cf. school agent; advises parents as to choice of school, arranges placing of children at school chosen; also acts as employment agent (q.v.) for schools and teachers.

broker; acts as intermediary between buyer and seller, charging commission (brokerage) on money value of transaction; does not handle goods and has no lien on the subject matter of transaction; usually specifically designated, e.g. cotton broker, patent broker, West India broker; cf. stock broker (792), insurance broker (734), ship broker (790), bill broker (798), etc.

commercial representative, see agent.

commissioned merchant, see factor.

employment bureau manager, see agent, employment.

factor; commission merchant; as for agent except that he does not act as employee of any firm; differs from broker (q.v.) in that he may hold and control possession of goods; cf. factor (779).

manager, registry office; registry office keeper; an employment agent (q.v.) specializing in domestic service.

772.—BUYERS.

agent, purchasing; a buyer (q.v.) acting on behalf of a number of firms.

buyer; selects and purchases goods for retail sale on behalf of his firm; interviews travelling representatives of manufacturers or wholesale merchants; visits market centres; in large departmental stores, buys for one department only, under supervision of head buyer.

773.—COMMERCIAL TRAVELLERS.

book traveller; is publisher's representative to book-selling trade; sells fiction, history, technical, etc., books; forwards orders periodically to head office for execution; in country districts, sometimes

collects accounts and sends cash to headquarters; cf. *beck carrier* (774); works on commission basis, on salary and commission or on salary only.
commercial traveller, commercial representative, salesman, traveller, travelling salesman, wholesale representative; travels from place to place seeking orders for goods from old and new customers (usually retail shopkeepers (710) (q.v.)) for the firm he represents; usually operates in particular districts; displays samples to prospective buyers in their shops, or may arrange extensive displays of goods, inviting buyers (772) to stand; works on commission basis, on salary and commission or on salary only.

774.—CANVASSERS (not Book, Insurance or Railway).

advertising representative, advertising traveller, see *canvasser, advertisement*.

canvasser; *traveller*; sells goods, or takes orders for goods on production of sample, generally by selling on the counters in their homes to representative houses from which usually on commission basis, or on small salary and commission.

canvasser, advertisement; advertising canvasser; advertisement representative, advertising traveller; selects advertisements on behalf of advertising agencies (775) or others having advertising facilities, e.g. newspapers, by calling on manufacturers, shopkeepers, societies, etc. **canvasser, book**; canvasses schools, public offices, etc. for sale of technical or other books on subscription system; sends orders to head office for execution, daily; usually works on commission only or salary and commission; cf. *beck traveller* (775).

canvasser, directory; directory agent, directory traveller; calls from house to house to ascertain names of occupier, business, etc., for compilation of district directories; canvasses for advertisements and for orders for the directory.

canvasser, freight; employed by shipping or canal company, or by shipping or canal agent (710) (q.v.) to canvass manufacturing and commercial firms for orders, or for contracts, for traffic.

canvasser, ship's stores; *canvasser*; boards ships in docks or harbours and endeavours to book orders for stores.

clothing club agent; cf. *canvasser* (q.v.) who obtains orders and collects subscriptions for a clothing club.

collector, credit draper's; collects weekly or monthly payments for goods sold on instalment system by credit draper (770) (q.v.).

collector, salesman; *tailor*; cf. *canvasser* (q.v.) who also collects weekly or monthly payments for goods sold on instalment system.

directory agent, traveller, see *canvasser, directory*.

tailor, see *collector salesman*.

townsman; a *canvasser* (q.v.) who confines his calling to towns.

traveller, see *canvasser*; cf. *commercial traveller* (774).

775.—SALESMEN AND SHOP ASSISTANTS.

assistant, see *shop assistant*.

baker's assistant; a shop assistant (q.v.) in a baker's shop.

blockman (butcher's, fishmonger's, provision merchant's, etc.); a shop assistant (q.v.) whose chief work is cutting up meat, filleting fish, etc., on a solid wooden block.

bookstall boy; *newsboy*; sells books, papers and magazines at a bookstall in railway station, etc., or from basket tray, on railway platform, etc.

butterman; a shop assistant (q.v.) in provision merchant's shop who sells butter, margarine, lard and cheese only. **chemist's apprentice**; is registered with Pharmaceutical Society, after having passed a preliminary examination, as to receive practical training under a qualified chemist (770) (q.v.) for Society's qualifying examination; after July 1908 must serve under Articles of Dispensing.

chemist's assistant; assists retail chemist (770) (q.v.) in sale of patent medicines, chemicals, druggists' sundries, etc., in dispensing medicine, and in general assistant work; until himself a qualified chemist, may not sell poisons or dispense prescriptions containing poisons, except under direct supervision of qualified chemist (770) (q.v.).

counter man, woman, see *shop assistant*.

demonstrator; gives practical demonstrations in a retail shop or store of the qualities, capabilities or methods of use of some article on sale.

dyer's agent or shopkeeper, see *receiver*.

frontman (fishmonger's, fruiterer's, etc.); sells fish, fruit, etc., from the open front of a shop; is also responsible for display of fish on slabs, fruit in shop baskets, etc.

laundry receiving agent, see *receiver*.

library assistant; issues and exchanges books for customers of lending library; classifies and indexes books; keeps records, usually on card index system, of books issued and returned.

mannequin, model; *showroom model*; displays dresses, costumes, etc., in showrooms, by wearing them and parading before prospective customers.

newsboy, see *bookstall boy*.

receiver, receiving office attendant, *receiving shop assistant*; *dyer's agent*, *dyer's shopkeeper*, *laundry receiving agent*; receives parcels of clothing to be laundered, cleaned or dyed; marks, sorts and packs, of packer and sorter (715) (q.v.); re-issues work done to customers; answers queries and advises as to cleaning or dyeing.

salesman, salesman, see shop assistant.

salesman, salesman; has charge of weighing operations in warehouse, large shop, or meat market.

shop assistant, shopkeeper's assistant, shopman, shopwoman; *assistant, counter man, counter woman, assistant, saleswoman*; serves customers' wants in retail shop or store, makes out bill or docket, takes money in payment for goods, where there is no cash desk or accounting system; weighs goods on scale or weighing machine when goods are sold by weight; wraps up goods for customers in bags or with paper and string; takes orders for later delivery; displays goods on counter, keeps goods in shop tidy and in good order.

shop walker; usually employed in department stores; does not himself/herself actually serve customers, but directs to different counters or departments; usually is in charge of number of shop assistants; initiates their skills and deals with queries; may act as manager of department and sometimes as buyer (772) (q.v.).

showroom assistant, attendant; a shop assistant (q.v.), displaying goods and taking orders in showroom.

showroom model, see *mannequin*.

systems expert; a *demonstrator* (q.v.) explaining to customers in large commercial stationer's shop uses and merits of efficiency systems, e.g. card index, filing cabinets, loose-leaf papers; also visits firms of clients and advises as to modification of existing systems and installation of new systems.

776.—ROUNDSEMAN AND VAN SALESMAN.

barrowman, see *roundsman*; some towns specifically designated, e.g. *baker's barrowman*.

hunger man; milk *kitter*; a milkman (q.v.) driving a milk float or hunger.

coal hawker, coal man; (i) buys coal from coal collector (770) (q.v.) at coal depot; sells and delivers it, usually in small quantities, driving his cart on a definite round of streets; (ii) is employed by coal merchant (770) (q.v.) to hawk coal.

delivery man, see *roundsman*.

milk kitter, see *hunger man*; a kit is a milk float.

milkman, milk carrier, *milk deliverer*, *milk hawker*; sells or delivers milk in cans or bottles at customers' houses from hand barrow, float, or van; keeps book record of amounts delivered and makes returns to shop; collects accounts; usually also sells cream, butter and eggs; may carry butter, fruit or van, send home in stable, etc.

roundsman; *barrowman, delivery man, vanman*; sells milk, bread, or green-grocery, etc., at customers' houses from barrow or van; usually has retail shop as headquarters of his round; occasionally for new customers it is specially furnished responsible to shopkeeper for barrow or van load, frequently drives horse or motor van, cf. *driver* (779/780).

vanman, see *roundsman*; sometimes specifically designated, e.g. *baker's vanman*, *van salesman*, *van traveller*; a *roundsman* (q.v.) retailing various kinds of merchandise from a van in country districts, e.g. groceries, mineral water, household goods, etc.

777.—COSTERMONGERS AND HAWKERS.

baked chestnut man; *chestnut roaster*; a *hawker* (q.v.) who roasts chestnuts on a small coke oven, fixed on a hand-truck, and sells them hot to customers.

barrowman; general term for any *hawker* (q.v.) to sell goods from a hand barrow, *barrow woman*, *barrow girl*; a *hawker* (q.v.) who sells fruit or flowers from a basket.

book collector; a *pedlar* (q.v.) who carries books, etc., usually sells in itinerant, in a sack round country districts.

booth keeper; sells goods from a temporary stall erected at a fair.

bumbast man, woman; carries fruit, provisions, etc., in a broad, flat-bottomed boat, called a *bumbast*, to markets in port or of shore, to sell to passengers or crew.

cat's meat man, woman; sells as cat's meat, pieces of horse flesh, which he has cooked beforehand, usually steak on skewers, from a barrow, and delivers from house to house.

chestnut roaster, see *baked chestnut man*.

cockle wife, see *hawker*.

costermonger, costard monger, coster; *fruit seller* (street), *fruit stall keeper*; a *hawker* (q.v.) who sells fruit or vegetables (sometimes fish or other commodities) from a street stall, barrow or cart.

flower girl, flower seller; *fish hawker*, *fish wife*, *flower girl*, *flower seller*, *fish hawker*, *fish wife*, *flower girl*, *flower seller*, *fish hawker*, *fish wife*, etc.

hawker, street hawker; *cockle wife*, *flower girl*, *flower seller*, *fish hawker*, *fish wife*, *flower girl*, *flower seller*, *fish hawker*, *fish wife*, etc.

hawker, street hawker; *cockle wife*, *flower girl*, *flower seller*, *fish hawker*, *fish wife*, *flower girl*, *flower seller*, *fish hawker*, *fish wife*, etc.

hawker, street hawker; *cockle wife*, *flower girl*, *flower seller*, *fish hawker*, *fish wife*, *flower girl*, *flower seller*, *fish hawker*, *fish wife*, etc.

hawker, street hawker; *cockle wife*, *flower girl*, *flower seller*, *fish hawker*, *fish wife*, *flower girl*, *flower seller*, *fish hawker*, *fish wife*, etc.

hawker, street hawker; *cockle wife*, *flower girl*, *flower seller*, *fish hawker*, *fish wife*, *flower girl*, *flower seller*, *fish hawker*, *fish wife*, etc.

hawker, street hawker; *cockle wife*, *flower girl*, *flower seller*, *fish hawker*, *fish wife*, *flower girl*, *flower seller*, *fish hawker*, *fish wife*, etc.

hawker, street hawker; *cockle wife*, *flower girl*, *flower seller*, *fish hawker*, *fish wife*, *flower girl*, *flower seller*, *fish hawker*, *fish wife*, etc.

hawker, street hawker; *cockle wife*, *flower girl*, *flower seller*, *fish hawker*, *fish wife*, *flower girl*, *flower seller*, *fish hawker*, *fish wife*, etc.

hawker, street hawker; *cockle wife*, *flower girl*, *flower seller*, *fish hawker*, *fish wife*, *flower girl*, *flower seller*, *fish hawker*, *fish wife*, etc.

hawker, street hawker; *cockle wife*, *flower girl*, *flower seller*, *fish hawker*, *fish wife*, *flower girl*, *flower seller*, *fish hawker*, *fish wife*, etc.

hawker, street hawker; *cockle wife*, *flower girl*, *flower seller*, *fish hawker*, *fish wife*, *flower girl*, *flower seller*, *fish hawker*, *fish wife*, etc.

hawker, street hawker; *cockle wife*, *flower girl*, *flower seller*, *fish hawker*, *fish wife*, *flower girl*, *flower seller*, *fish hawker*, *fish wife*, etc.

hawker, street hawker; *cockle wife*, *flower girl*, *flower seller*, *fish hawker*, *fish wife*, *flower girl*, *flower seller*, *fish hawker*, *fish wife*, etc.

pea and pie vendor, *pie vendor*; a hawker (q.v.) who sells peas, and hawker (on small portable stove carried on a truck; food is sold hot for immediate consumption).

pedlar, street pedlar; pedlar, petty pedlar, seller (petty), seller (petty); a hawker (q.v.) who carries a license under the Pedlars Act, 1871, in which he is defined as one who "without any horse or other beast bearing or drawing burden, travel from trade to trade, peddles from town to town or to other sales houses carrying to sell or to export for sale, any goods, wares or merchandise immediately to be delivered, or selling, or offering for sale his skill in handicraft"; no license is required if goods are sold in any public market or fair, or if goods consist of vegetables, fish, fruit or victuals.

petty chapman, see pedlar.

potato roaster, see hot potato man.

rag and bone man, ragman; buys rags, bones, waste paper, etc.; pushing barrow or carrying sack, calling from house to house.

seller (chip potato); a hawker (q.v.) who sells sliced potatoes on a small table often placed on a barrow, and sells to passers-by.

seller (cabbage, orange, fern, flower, etc.), see hawker.

seller (ice cream-street; ice-cream food; a hawker (q.v.) who sells ice cream in street, using specially constructed barrow which includes a refrigerator.

seller (match), see pedlar.

seller (street); (1) see hawker; (2) see pedlar.

stallkeeper, smallware stallkeeper, see market salesman.

778.—NEWSPAPER SELLERS.

newsboy, newspaper boy; sells newspapers in street, or delivers newspapers for retail newspaper (779) (q.v.) as customer's houses.

newspaper seller, news vendor (street); stands at a fixed place in street selling newspapers.

779.—ADVERTISING AGENTS.

advertising expert; advises as to method of display of advertisements, medium, locality, etc.

advertising representative; calls on clients on behalf of advertising agent or contractor to arrange details of advertising scheme; submits rough lay-outs, etc.; calls in reply to enquiries for estimates, etc.

agent, advertising; advertisement agent, publicity agent; undertakes advertising of all descriptions; advises as to scope and form of publicity; retails space in newspapers and journals, on boardings, vehicles, etc.; prepares lay-outs, copy, designs, etc.; completes approved material, and arranges for its subsequent printing and publication; in some cases, also acts as advertising contractor (q.v.).

agent, billposting; arranges, on behalf of clients, for placing of poster advertising with one or more billposting contractors (q.v.).

agent, circular distributing; undertakes distribution of circulars and other circulars by post or by hand to addresses furnished by client or taken from directory.

bill poster (employer), see contractor, billposting.

billposting expert; plans arrangement of posters on display station; gives advice as to successful poster advertising.

contractor, advertisement; advertising contractor; contracts with railway, omnibus companies, or others having advertising facilities for utilisation of available space; lets space to advertisers either by contract or according to schedule of prices; carries out placing or posting of advertisements.

contractor, billposting; bill poster (employer); accepts orders or contracts for posting of posters or other advertisements on boardings or other display stations of which he has acquired the posting rights; sometimes has boardings built and maintained; supervises work of clerks (780) and billposters (889) (q.v.).

inspector, advertisement; advertising inspector; examines advertisements on railway rolling stock and premises, on boardings and other public places, to ensure that they are properly placed and in good condition; reports as to renewal of contracts.

inspector, bill (not theatre, etc.); examines boardings and other billposting stations, to ensure that posters and other advertisements are being correctly posted and are in good condition.

manager, advertisement, advertising (newspaper); controls advertisement side of newspaper publishing; lets space; classifies advertisements for orderly insertion; in some cases, provides facilities given specially by advertising agents (q.v.).

press agent; negotiates, on commission, the work described under press manager (q.v.); provides drawings and lay-outs for advertisements in press, etc.

printer, in charge of arrangements for advertising in press, for setting notices of forthcoming events, new plays, etc., to press representatives; ensures that these events are adequately noticed in press, etc.; provides illustrated newspapers, magazines, etc., with photographs for reproduction.

superintendent, advertisement, advertising, see manager, advertisement.

780.—OTHER COMMERCIAL OCCUPATIONS.

addresser, circular, envelope; newspaper writer; writes names and addresses on envelopes or circulars from list or directory; sometimes also folds circulars.

agent, books cutting; undertakes to read newspapers, journals, etc., for reference to particular name or subject; supplies clients with cuttings containing such references.

checker, set stockholder (puddling furnace); see checker (785).

coal meter man; checks, on a weigh- bridge, weight of coal leaving coal merchant's yard or colliery for gas company's or other industrial works for which coal has been ordered in bulk; ensures that weight and quality of coal are as ordered; fills in certificate and passes to customer.

code expert; undertakes the translation of telegraph and other messages from and into code.

collector, automatic meter, coin slot meter; collects periodically money deposited in automatic machines belonging to an automatic supply company or in slot meters of gas or electricity supply company; sells automatic machines with goods, when necessary.

collector, debt, rent; collector of debts, collector of rents; calls on debtors, or collectors of houses, flats, etc., to collect debts (or rents) on behalf of creditors; charges commission on money collected.

collector, gas company's; makes out accounts from information supplied by retail department; renders accounts to customers, calls on them, collects rentals, i.e. charges for water hire and for gas supplied, and gives receipts therefor; pays a sum to bank and renders return to accountant's department.

collector, market toll, bridge toll; collects fees for use of market stalls (or bridges) when privately owned.

copy writer (advertising); composes or writes the descriptive matter (copy) for advertisements.

folder, circular; folds advertisement circulars for distribution; fills into advertising envelopes, if required.

gauge, valmer's, see stockholder, valmer's instrumens (sewing machines); visits buyers of sewing machines in their homes to instruct them in use of machine.

measurer; measures and records external dimensions of bulk of goods, timber, etc., for freight or other purposes; when measuring timber, calculates cubic contents according to class of timber and trade custom, for freight or other purposes; sometimes specifically designated, e.g. timber measurer.

measurer, sworn, as for weight, sworn.

meter, see weigher; originally a recorder of numbers of quarters or bushels in a cargo of grain, etc.

meter, sworn, see weigher, sworn.

press clipper (press cutting agency); see reporter (press cutting agency).

pumpman (water supply); operates pump standard for supply of petrol in fixed quantities to customers motor cars at roadside or at special filling stations; accounts for money received for petrol sold.

reader (press cutting agency); press clipper (press cutting agency); sends news papers, periodicals, etc., and cut-out items of interest to individuals, companies, etc., subscribing to agency.

representative, correspondence school (or business training college); calls at the homes of prospective students making preliminary enquiries to diagnose course desired, syllabus, fees, etc.

runner, fish salesman's; reports to salesman (786) arrival of fishing boats in harbour; keeps tally of deliveries and assists salesman generally; e.g. fish salesman's clerk (328).

sampler, corn, cotton, grain, hup, wool, etc.; warehouse sampler, sampleman; examines deliveries of goods at warehouse to ensure that they are in accordance with specification, prices goods where qualities vary, on behalf of factor or merchant; prepares samples for prospective purchasers.

sampler, retail; attends warehouses on behalf of buyer, withdraws for testing samples of tea to be sold by auction; deposits at warehouse "returns" of an equal weight and quality for tea taken.

scaleman; weighs goods for import or export at dock or wharf; works in connection with weigher (q.v.).

stocktaker; makes periodical inventory of stock of goods, etc., in shop or warehouse, or of raw material, etc., in factory, etc.

stocktaker (iron and steel rolling); makes forecast in charge of rolling operations of orders received; determines margins to be allowed in size and weight of bar for production of sheets or plates of given size; attends to dispatch of finished goods; in some cases, weights of various articles produced by which piecework wages are determined.

stocktaker (puddling furnace), bar stocktaker; checker; keeps record of stocks of finished wrought iron bars, pig iron, fuel, etc.; weighs of various articles produced by which piecework wages are determined.

stocktaker, valmer's; valmer's gauge; assesses value (794) (q.v.) in valuing of goods, machinery, property, etc.; makes inventory with values attached at valmer's discretion.

tea taster; tastes sample infusions of tea offered for sale to tea merchant or large retailer, in order to form estimate of quality and value.

weigher and meter; stands by while goods for import or export are being weighed by scalesman (q.v.) or by labourers and records weights in a book.

weigher, sworn; sworn meter; a weigher (q.v.) who is sworn and signs an affidavit before a commissioner of oaths to record weights of goods, etc., correctly.

window dresser, window display man; designs and carries out window displays of goods for sale in retail shops, etc.

wrapper writer, see addresser, circular.

Sub-Order 2.—Persons Employed in Finance and Insurance.

791.—BANKERS, BANK OFFICIALS (HEADS OF DEPARTMENTS, MANAGERS, INSPECTORS).

accountant; (Scottish term) as for chief clerk; makes up balance sheets of work and keeps special ledgers, e.g. profit and loss account; sometimes responsible for daily balance of bank cashiers (339).

agent, bank; (1) (Scottish term) see bank manager; (2) note representative of a bank, in place where no branch of that bank exists, or where, by virtue of his

knowledge of local financial conditions; he can advise the branch manager; *absolvent*.

agent, savings bank: receives small deposits and pays out under certain conditions, as representative of a savings bank (not P. O.) in collecting same; usually a part-time occupation; *absolvent*.

bank auditor, *see* inspector.

chief cashier, chief teller: a bank cashier (189) (q.v.) who normally does work of cashier and is also responsible for daily balances of the cashiers under him, and for the cash in the strong room. **chief clerk:** is in charge of all clerical work in large branch of a bank, or in a section at head office, e.g. securities, ledgers, correspondence; appropriaes duties, checks work periodically and is generally responsible for manager's instructions being carried out; usually deals with enquiries from public.

inspector: *bank auditor:* travels from branch to branch of a banking company, checking and auditing ledgers, cash balances, etc., and inspecting work in general. **manager, bank, branch:** manager; bank agent (Scotland); in charge of business of bank, or branch; interviews clients; conducts correspondence; arranges transactions; controls staff.

manager, general: is responsible at head office for management of whole of business and its branches, and ensures that policy of directors is carried out; controls staff appointments and promotions.

792.—STOCK BROKERS AND STOCK JOBBERS.

bucket shop keeper (*slang*), *see* stock broker, outside.

investment broker, share broker, share dealer, stock broker, stock and share broker: conducts purchases, sale and transfer of stocks and shares in public funds and private companies, on behalf of public, receiving commission for services; usually member of Stock Exchange, where above business is transacted with stock jobbers (q.v.).

stock broker, outside: *bucket shop keeper* (*slang*); not being member of Stock Exchange, conducts business elsewhere, usually in stocks and shares not quoted on Exchange, or through the medium of a stock broker, who is a member.

stock broker's manager: has charge of business of stock broker (q.v.) for his principal; is generally a member of Stock Exchange, or, at least, an authorized clerk (192) (q.v.).

stock jobber, stock and share jobber: deals in stocks and shares on the floor of the "House" (Stock Exchange) to meet the requirements of stock brokers (q.v.); does not do business with public; is always a member of Stock Exchange.

stock jobbers' manager: has charge of business of stock jobber (q.v.) for his principal; is necessarily either a member of Stock Exchange, or, at least, an authorized clerk (192) (q.v.).

sworn broker: a stock broker (q.v.) who has sworn on oath, sometimes under bond, faithfully to carry out certain transactions; *absolvent*.

793.—INSURANCE OFFICIALS (Heads of Departments, Managers, Inspectors).

agent, Lloyd's: an underwriter (q.v.) acting for Lloyd's Association of Maritime Underwriters.

agent, underwriter's: represents and does business for an underwriter (q.v.) or firm of underwriters in a particular town or district.

agent, Varian's: an underwriter's agent (q.v.) acting for the Varian International Association of Underwriters.

assessor of fire: a public official, assessor of risks; *inspector of risks:* examines and assesses damage caused by fire, etc., in case of claim by an insurance policy holder, prior to payment of claim.

auditor, insurance, *see* inspector.

holder inspector: (1) *see* inspecting engineer; (2) (*for* *Share* *and* *Investment* *Insurance* *Company*) examines condition of holders periodically on behalf of policy holder, or check on decisions of insurance company's inspector;

make detailed visual examination; also tests for pressure, examines valves, glands, covering, etc.

chief clerk (insurance, etc., company): supervises staff of clerical in insurance or insurance company head office department or in a branch office acting under a departmental manager; is responsible for general conduct of work and staff discipline.

claims adjuster: on behalf of underwriting agent or Lloyd's Signing Bureau, examines claims submitted by insurance brokers (794) (q.v.) to ensure that claims are in accordance with terms of policies; spreads claims proportionately among underwriters (q.v.) if so authorized, passes claim or disallows it; underwriter's agent in cases of doubt under policy existing.

inspectng engineer: *holder inspector:* examines power plant proposed for insurance before a policy is issued, in order to assess insurable value; also examines snub plant, then and periodically, to ensure that it is kept in fit condition; arranges for repairs under terms of policy, i.e. as distinct from ordinary wear and tear; examines second-hand plant on behalf of intending purchasers who are his employer's clients.

inspector: *insurance auditor:* travels from branch to branch of an insurance company, inspecting the work in general, auditing books and checking cash; cf. assessor of risks.

inspector of risks: (1) *see* assessor of fire losses; (2) makes subsequent examinations of properties, etc., to ensure that terms of policy are being observed, and due precautions taken against risks.

sick visitor: visits at their homes persons drawing sick benefits from a health insurance company or benefit society, to ensure that sickness is bona fide and comes within terms of policy.

superintendent, district: *superintendent of agents:* supervises work of insurance agents, usually life or industrial, in a particular town or district; conducts special negotiations; deals with local complaints, etc.

underwriter: a member of a syndicate which undertakes to bear a portion of the risk in connection with any large sum of money involved in insurance policies, usually marine, or in the floating of private or public loans, in return for certain premium per cent.; may act as underwriter's agent or as claims adjuster (q.v.), or may not take active part in underwriting, merely providing part of covering capital.

794.—INSURANCE AGENTS AND BROKERS.

agent, assurance, commission (insurance), insurance: represents an insurance company (or more than one) in a particular town or district, securing new policies, collecting premiums, etc., on commission basis.

broker, insurance: arranges insurance business (more especially marine) between insurance company or underwriters (793) (q.v.) and client; charges brokerage.

795.—INSURANCE CANVASSERS.

agent, assurance, insurance: *insurance canvasser, insurance collector:* canvasses for new life and health insurance policies; collects premiums weekly or monthly on policy already held, in foreign districts works under district superintendent (793) (q.v.) and is paid by commission.

agent, club (e.g. burial club, sick club, benefit society), as for agent, assurance.

canvasser, insurance, *see* agent, assurance.

collector, insurance: (1) visits members of sick club or insurance society at their homes to collect weekly or monthly premiums; (2) *see* agent, assurance.

traveller, insurance: travels from place to place in a specified area in search of new policy holders for an insurance company (not usually life insurance), working on salary and commission basis or purely on commission.

796.—AUCTIONEERS, APPRAISERS, VALUERS.

agent, brewer's: *brewery agent:* manages generally the licensed houses belonging to a brewery; arranges transfers of licenses; collects rents; conducts valuations, either personally or through an employed valuer or stockbroker (189) (q.v.); keeps properties in repair, etc.

agent, business: *business transfer agent:* arranges sales or transfers of businesses, carrying out all necessary valuations, etc.; works on commission.

agent, estate: *house agent, house agent, land agent, property agent:* arranges sales and letting of houses, shops, flats, estates, building plots, etc.; collects rents, arranges for repairs, etc.; works generally on commission.

agent, estate, *see* surveyor; land agent, and surveyor: combines functions of estate agent (q.v.) with those of surveyor or may employ surveyor to do work for him.

agent, madril: a partnership agent (q.v.) who specializes in valuing medical partnerships or practices and arranges sale or transfer; arranges supply of locum tenens during absence of doctor.

agent, partnership: negotiates sales of business or professional partnerships generally on a commission basis; cf. business agent.

agent, rent: collects rents for property owners on commission basis; also arranges sale and letting of small properties.

appraiser, appraiser and valuer, *see* valuer.

arbitrator (valuing): is generally a valuer (q.v.) who decides questions of value in dispute between parties unable to reach a mutual agreement.

auctioneer, salesman: sells, by auction, goods, land, houses, etc.; advertises and prints catalogues of sale; holds State licenses; frequently specifically designated according to particular goods sold, e.g. cattle, fish, live stock, rag, waste materials, precious stones, antiques.

auctioneer and surveyor: combines business of auctioneer and surveyor; in his house usually sells house, etc., property chiefly; sometimes, especially in country districts, also does work of an estate agent (q.v.); cf. estate agent and surveyor, rating surveyor and valuer.

broker, hotel or publican's: arranges sale of hotel business or public houses by auction or private treaty, on commission basis.

broker, sworn: a valuer (q.v.) who, under an affidavit, prepares evidence of quantities, value, etc., of properties in dispute between contesting parties; *estate manager;* *land salesman:* arranges sale of plots of building land, or houses on ground belonging to private owner or company; prepares plans for development of housing estates.

gauger: a valuer (q.v.) who specializes in valuing alcoholic liquors. **interviewer (appraiser's):** interviews clients to obtain particulars of property for sale or lease; arranges advertising; interviews prospective customers and arranges terms; receives deposits from purchasers or lessees.

rating surveyor and valuer: an auctioneer and surveyor (q.v.) who undertakes assessment of special properties, e.g. licensed premises, railways, where an official is employed by local authority for other assessments, or who undertakes gross and reliable value of all properties, in areas where local authority does not employ such official.

salesman, *see* auctioneer: sometimes specifically designated, e.g. fish salesman.

salesman, land, *see* estate manager.

surveyor and valuer: a surveyor who combines with his land surveying the work of valuer (q.v.).

valuer: *appraiser, appraiser and valuer:* makes valuations and valuations of goods, businesses, land, properties, etc., for purposes of sale by auction or private treaty, probate, etc., on behalf of seller, buyer, court of law or other interested parties; frequently specifically designated, e.g. stock valuer, brewery valuer, hotel valuer, draper's valuer, land valuer, hide and skin valuer, horse valuer.

797.—MONEYLENDERS AND PAWNBROKERS.

agent, financial, money; acts on behalf of one or more money lenders (q.v.) in arranging loans, working on commission basis; undertakes general financial transactions; cf. money broker.

broker, financial, money; procures loans on behalf of would-be borrowers, working on commission basis (brokerage); cf. money agent.

money lender, loan office keeper; lends money at an agreed rate of interest, generally on approved security; registered under Money Lenders Act, 1900; cf. pawnbroker.

pawnbroker; is licensed under Pawnbrokers Act, 1875, to lend money, less pounds or less, at a rate of interest fixed by the Act on security of goods pledged to him; himself disposes of pledges of less than value or less than term of period prescribed in Act, usually by direct sale; sends other pledges to qualified auctioneer, with option of buying-in; often also conducts retail shop, of shopkeeper, retail (r.v.), handling, furniture, clothing, jewellery, etc., according to locality.

798.—OTHER FINANCE AND INSURANCE OCCUPATIONS.

agent, enquiry; commercial enquiry agent, mercantile agent; on behalf of subscribers, conducts enquiries privately into financial status and business capabilities of prospective customers; reports to clients results of enquiries.

agent, income tax recovery; undertakes for clients recovery from inland Revenue Department of excess payments made on account of income or other taxes and duties.

agent, mortgage; deals in mortgages on land and buildings; buys from mortgagee and sells at profit; may act as mortgage broker (q.v.).

arbitrator; arbitrator broker; on behalf of the employers, purchases securities, e.g. stocks and shares, bills, bullion, foreign currencies, on one stock exchange or centre and immediately sells them on another exchange where higher price is ruling, to obtain difference between respective prices; sometimes conducts foreign exchange arbitrage, stock arbitrage.

average adjuster, average stater; computes liabilities of marine insurance companies and underwriters (798) for losses falling on policies of marine insurance; and calculates and adjusts liability rate of per cent to a maritime adventure, i.e. shipowner and cargo owners, for contributions to general average and salvage; has considerable knowledge of marine insurance law, of maritime law and of compensation.

bill discount; discounts approved bills of exchange for holder, i.e. pays amount returned before date due, less an arranged discount, pays transferring right of collection to discount.

broker debt buyer; buys from creditors, in return for an arranged proportion of sums due, rights to collect on notes, bills, etc., to recoup himself through amounts which he may be able to recover from debtors.

broker, arbitrage, see arbitrator.

broker, bill; discount broker; acts on commission basis as agent for discounting of bills of exchange between holder and bill discount; sometimes himself acts as bill discount (q.v.).

broker, exchange; money dealer; arranges purchase and sale of foreign currencies, chiefly on behalf of banks, but sometimes acting for large firms, actual payments, however, being made direct from buyer to seller; has knowledge of ruling currency prices and locates where definite amounts of money can be purchased, receives brokerage commission for his services.

broker, mortgage; arranges mortgages on landed or other properties, receiving commission (brokerage) for his services.

collector of remittances; negotiates remittance notes from transmitters, to whom they have been tendered in exchange for goods or services, pays their value at a discount, and sends them at shipowner's pay office.

company liquidator; a chartered or incorporated accountant appointed by meeting of creditors, by Chancery Division, High Court, or by County Court to take over business of a company in voluntary liquidation.

company promoter; acts as agent for proprietors of a business or enterprise in making all preliminary arrangements for flotation of a limited company; sometimes acquires an interest in an enterprise requiring capital for development and finds a limited company as a speculation.

financier; general term denoting anyone engaged in financial transactions, banking on a large scale, company promoting, etc. money changer; money dealer; at exchange money of one country for that of another at current rate of exchange less small percentage as fee. money dealer; (1) see money changer; (2) see broker, exchange.

ORDER XXVI.—PERSONS EMPLOYED IN ENTERTAINMENTS AND SPORT.

Sub-Order I.—Persons Employed in Entertainments and Sport.

880.—MANAGERS, LESSEES OF THEATRES, PICTURE THEATRES, CONCERT HALLS, ETC.

acting manager; see business manager; cf. actor.

advanced agent; goes on ahead of touring theatrical company, circus, etc., and makes arrangements for advertising, accommodation, etc.

assistant stage manager; as for stage manager (q.v.), when he acts as and for whom he depicts; usually acts as prompter (887) (q.v.) during performance.

business manager; acting manager (business); has charge of all "front of the house" arrangements in a theatre; engages contracts, and pays theatre staff; has charge of box office and all accounts; directs advertisement.

producer; is responsible for the production of play or show; decides positions and movements of actors (885) (q.v.) position of scenery and properties on the stage; indicates interpretation to be given to each speech; approves dresses, properties, design of scenery; directs rehearsal.

stage manager; is responsible for smooth running of performance; satisfies himself that scenery, lighting, properties, etc., are in order; sees that all artists are on premises prior to performance, and if they are not, instructs undersecretary (885) (q.v.) to take part of absent performers; sees that artists are not prolonged; is in charge of everybody and everything on stage; receives reports from master carpenter (874), property master (881) and electrician (807) (q.v.) that everything under their charge is in order.

theatrical manager; undertakes, on his own account or for others, management of a theatre; arranges production; engages, controls and pays company and staff; is often himself proprietor or leasee of theatre; cf. business manager.

881.—THEATRICAL, FILM HIRING AND VARIETY AGENTS.

agent, band agent, concert agent, lecture agent, theatrical agent, variety agent; conducts an agency by which bands, lectures, concert, theatrical or variety artists respectively are put in touch with organizers of public performances, theatrical managers, etc.; keeps register; arranges terms of contract, i.e., salary, dates, duration; often arranges bookings, itineraries, and expensives advertising arrangements of performances. agent's manager; in general conduct of an agency, not being himself proprietor; duties as for agent; sometimes specifically designated, e.g. band, concert, film hiring, theatrical or variety agent's manager.

film hiring agent; film renter; acquires, by purchase or arrangement, right to hire a cinematograph proprietor's film; arranges trade shows of own film (sometimes done by producer (880) (q.v.)); lets films on hire; agrees terms, conditions and itinerary.

882.—FILM PRODUCERS, FILM STUDIO MANAGERS.

director of production, see producer, cinema.

film editor; assembles film negatives by joining them together with gum; verifies negatives as to continuity of story; frequently also writes sub-titles; is sometimes a film producer (q.v.).

producer, cinema, film; director of production; makes arrangements for cinematograph production, and superintends staging and photographing; directs action of players and is generally responsible for production.

studio manager, film studio manager; is in charge of film studio where cine-matograph films are exposed, developed and printed, and of staff, including scene shifters (887), electricians (807) (q.v.), etc.; gives instructions for putting up scenery as and when required by film producer (q.v.); does not, as a rule, deal with correspondence or arrange for exhibition of films.

883.—SHOWMEN; FAIR AND ROUNDABOUT PROPRIETORS AND MANAGERS.

amusement caterer, manager, owner, proprietor of fair, roundabout, show, swings, etc.; showman; owner or manager of travelling circus or fair, swings, roundabouts, patch and jolly or puppet show, etc.; provides amusements also at garden parties, gala, etc.; may direct staff of workers in erection and dismantling of shows.

manager of feast; an amusement caterer or showman (q.v.) who organizes amusements at wakes or on feast or gala days; may also organize bazaars, etc.

884.—PROPRIETORS AND MANAGERS OF OTHER ENTERTAINMENTS AND SPORTS.

clerk of the course; is sole person responsible to stewards of Jockey Club (in case of flat racing) or to National Hunt Committee (in case of steeplechasing) for all arrangements in connection with race meetings; inspects course periodically and confers with directors of racing club (his employees) regarding stakes, programmes, race cards, etc.; superintends marking of distances horses have to run; attends races and acts as mediator between stewards and any disputing parties; generally superintends all race course staff.

clerk of the scales; is responsible that jockey (885) (q.v.) rides at correct weight, as laid down in racing calendar; sees all jockeys weighed before race, and first four jockeys after race; superintends weighing and enters up weights in a book; is responsible to Jockey Club for proper carrying out of duties.

courtesy clerk; is in charge of arrangements for sport of dog coursing; records events and results.

handicapper; watches form of competitors, to guide him in deciding handicaps; allows weights to be carried by horses in handicap races, or, in case of foot races, starts to be resolved by certain competitors; advises racing authority or executive accordingly.

judge; (1) (steeple racing) is stationed at winning post and "places" horses in accordance with their order; is paid by owners of courses attended, and is usually under the direct control of the Jockey Club stewards; (2) (coursing) watches dog coursing race from convenient standpoint and decides which dog is winner.

master of ceremonies (dance hall); arranges and regulates dances, entertainments; band as to time, duration, etc., of dances, and is responsible for general conduct of dances.

rink floor manager: is in control of the floor staff and floor of skating rink. **Instructional instructor**, **skate boy** (323), **skate storeman**, **arranger**, occasionally, with **bandmaster** (385) (q.v.), programmes of music, dances, etc., but is not himself musical conductor; gives instructions for removal of any disorderly person; is responsible for running of the floor, its beginning and finishing of skating and clearing of floor when skating finishes.

starter: is responsible to the executives of the meetings he attends for the starting arrangements of a race; of *race meeting*, when all horses are in line, pulls a lever which releases a white tape drawn across course, so the start for the race to commence; reports disobedience of jockeys (385) (q.v.) to steward (race course) (q.v.); at *ordinary athletic meeting*, *yacht race*, etc., starts competitors by firing off gun or pistol.

steward (race course): is appointed with others by race course executive to take charge of racing at a race meeting; has power to disqualify winning horses when an objection is raised; enquires into conduct of jockeys (385) (q.v.) racing at a meeting; and if found guilty of disobedience or reckless riding, has power to fine or suspend them; makes report to Jockey Club.

885.—ACTORS, etc.

actor, **actress**: plays a part in theatrical production; impersonates and portrays character by speech and gesture; sometimes specifically designated, e.g. *classical actor*, *actress*.

actor manager: a theatrical manager (389) (q.v.) who is himself an actor, usually playing a part in play produced at his theatre; may also be producer (389) (q.v.). **actor vocaliser**: a professional singer (385) (q.v.) with dramatic training, qualified to play in operas, etc.; cf. *operatic singer* (388).

artiste: general term for a professional actor, dancer or entertainer; includes comedian, comedienne, acrobat, entertainer, humorist, roofer, ventriloquist, tragedian, trapeze artist; sometimes specifically designated, e.g. *comedy artiste*, *music hall artiste*, *variety artiste*.

chorus girl: a member of musical comedy or variety chorus.

comedian, **comedienne**: plays a humorous part in a theatrical or cinematograph production, or stage humorous songs in a music hall, or other entertainment.

dancer, **danceuse**: general term for one who performs dances, either alone, with others or in a troupe or ballet, at a theatre, music hall, etc.; often specifically designated according to kind of dance performed, e.g. *ballet dancer*, *eccentric dancer*, *dog dancer*, *de danseur*.

phantomist: an actor (q.v.) who performs in dumb show.

professional: general term sometimes used for any person engaged professionally in the theatrical profession.

super: *usher-on*; plays minor or "supplementary" part on stage, as a part which requires only dumb impersonation or "walk-on".

understudy: learns one or more parts in a theatrical production; attends rehearsals and each performance; and takes part if required by absence of actor or actress understudied; often also plays small part or walk-on.

walk-on, *see super*.

886.—MUSICIANS.

accompanist: plays, usually on a piano-forte, accompaniment of a song, or of a solo on a violin or other instrument at public entertainments; may also accompany soloist at practice.

bandmaster: conducts a band of instrumentalists (q.v.); selects music to be played; rehearses and conducts performance; cf. *musical director*.

bandman: general term for any member of a band of instrumentalists (q.v.); sometimes specifically designated, e.g. *military bandman*.

bell ringer: rings bells, usually in churches, either by pulling on a rope or ropes which cause the bells to swing in the belfry, or by playing on a keyboard connected to an electrically-driven mechanism for striking the bells; cf. *bell-ringer*.

chorifactor: a professional singer (q.v.) in a choir.

conductor, **musical conductor** (theatre, etc.), *see musical director* (theatre).

drummer: plays drums and percussion instruments, i.e. triangle, cymbals, glockenspiel, etc., in a band.

hand bell ringer: plays bells by ringing, one after another, a number of handbells, giving notes of different pitch, usually member of troupe or company.

instrumentalist, *see musician*.

musical director (theatre): *see director*, (theatre, etc.); leads or directs orchestra, band or chorus, organ, etc.

musician: *see musician*; general term for a professional player of one or more musical instruments, usually a member of an orchestra or band; term not generally used of vocalist (q.v.); includes bassoonist, 'cello, clarinetist, cornetist, flautist, fiddler, French horn player, harpist, oboist, pianist, trombonist, trumpeter, violinist, violoncellist, etc.

operatic artist, **artiste**; **operatic singer**: a singer (q.v.) with dramatic training who specialises in singing in operas; *see voice vocalist* (385).

organist: plays organ at churches, or cathedrals, or in concerts or other entertainments; sometimes specifically designated, e.g. *church organist*.

singer, **vocalist**: general terms for any person who sings at concerts, music halls, recitals, etc., or in operas, concertos, etc., in return for a fee or salary; sometimes specifically designated, e.g. *chorus singer*, *operatic singer* (q.v.), *professional singer*.

887.—STAGE HANDS, CINEMA AND LIMELIGHT OPERATORS.

biocope operator, *see cinematograph operator*.

cell boy: is responsible for notifying actors (385) (q.v.) and other performers shortly before they are due to appear on the stage; calls the half-hour, quarter-hour and five-minute before the curtain goes up; in *film producing*, calls out names of chorus actors and actresses (385) (q.v.) in dressing-room corridors when time has come for their appearance in scene.

cinematograph, *operator*, *see cinematograph operator's assistant*.

cinematograph operator, **cinema operator**: *biocope operator*; regulates electric motor operating machine which projects cinematographic picture on to screen, or in small provincial theatre, operates machine by hand; exhibits lantern slides of amusements, advertisements, etc., during intervals to show; adjusts lantern and projector to correct focus and illumination; fits in spoils and rewinds projected spoils when not so indicated by cinematograph operator (q.v.); carries out necessary minor repairs to apparatus; is sometimes a skilled electrician (397) (q.v.).

cinematograph operator's assistant, *see super*; *see super*; helps cinematograph operator (q.v.) by arranging spoils of film, lantern slides, etc., in sequence for projection; also operates machine in operator's absence; repairs broken films with gum; takes off, from machine, spoil containing film which has been shown on screen, and rewinds it on another spool, by hand; hands fresh spoils of film to operator; and stores away projected film.

dayman: is employed for a few hours in morning to clear stage and remove scenery after previous night's performance and to prepare stage for next performance.

dresser, **costume actor** (385), **actress** (385), and **music hall artiste** (388) (q.v.) to change their costumes; keeps costumes in order and ready for use; is sometimes a sewing woman (405) (q.v.) and does minor repairs; in case of music hall artiste or touring company, is responsible for packing and care of luggage.

flyman; *operator*, under direction of head flyman (q.v.), overhead appliances for raising and lowering of scenery by means of pulley ropes; works in dais.

flyman, **head**, **leading**, **charge hand** (theatre): is in charge of flyman (q.v.) and himself helps to operate overhead appliances for raising or lowering scenery.

limelight operator: has charge of and manipulates lantern, on perch or standard in wings of stage or back of auditorium; casts "spot" light on performers; throws beam of coloured light on stage by inserting slides in lantern; is generally a qualified electrician (397) (q.v.); in *small provincial theatre*, duties are usually performed by cinematograph operator (q.v.).

prompter: stands in wings of theatre to prompt when an actor (385) (q.v.) forgets his lines; in *opera*, reads *aria* over and continuously the whole libretto, when stood in front of footlights; in *theatrical prompting* is usually done by assistant stage manager (389) (q.v.).

property man: sets and clears stage of properties either under direction of master carpenter (474) or property master (q.v.); in *film studio*, is in charge of wigs, clothes, furniture and other properties and issues or procures them as required.

property master: is responsible for the safe keeping, issue, repair and, sometimes, making of stage properties; superintends selling and removing of properties.

scene shifter, **scene hand**, **stage hand**, **stage settler**: removes scenery and places fresh scenery in position, when required, at a theatre, music hall, film studio, etc.

stage machinist: has charge of and keeps in repair stage machinery; supervises working of winches, pulleys, trap doors, etc., used on stage at theatre, music hall, etc.; is usually either a master electrician (397) (q.v.) or master carpenter (theatre) (474) (q.v.).

wardrobe mistress: has charge of stage wardrobe of female members of theatrical company; an acquaintance does minor repairs to clothes, or has one or two dress-makers (405) (q.v.) working under her to do such repairs; in *amateur plays*, also has charge of stage wardrobe of male members.

888.—RACE-HORSE TRAINERS; JOCKEYS AND TRAINING STABLE ATTENDANTS.

apprentice (training stable): a boy, usually instructed to a horse trainer (q.v.), learning to become a jockey; rides horses in training and in races; in addition, grooms and feeds horses, cleans stables, prepares bedding, and makes himself generally useful.

groom (born rarely used in a racing establishment); *see stable lad* (racing stable).

headman, **head lad**: superintends work of stable men; employed in or about a racing stable; breaks sick or injured horses under direction of trainer or veterinary surgeon; occasionally rides horses at exercise in absence of trainer (q.v.).

jockey: rides horse in horse race and whilst in training for event.

manager (racing stable), **secretary-manager**: is usually in charge of business side of a training stable; arranges for transport of horses and jacks to race meetings; orders forage, medicines, saddles, etc., and attends to correspondence; usually pays wages of stable employees, and arranges entries of horses for races on instruction from owner or trainer (q.v.).

stable lad, **stable boy**: groom; is employed at racing stables to look after horses and keep clean stables; also rides horses at exercise; grooms, feeds down, feeds and exercises outside in harness; sometimes treats sick or injured horses under direction of veterinary surgeon.

trainer, **manager** or **headman** (q.v.); is usually too busy to ride horses at races.

trainer: manages racing stables and superintends training of horses; usually arranges entries of horses, under his charge, for races; has expert knowledge of horses and of their training, and is usually a

veterinary surgeon; may be proprietor of stable; accepting horses for training
training stable attendant; prepares horses' manure, lights and attends fire underneath copper in which it is heated; helps to clean and feed horses, and does other odd jobs in or about training stables, etc.
travelling lad (racing stables); travels to race meetings with horses, occupying, with stable lads (q.v.) under his charge, compartment next to horses; on arrival, superintends stabling, grooming, and feeding of horses under his charge; saddles horses for race; in horse-race, supervises safe loading of horses, in barrow-horse, for return journey.

889.—MONEY TAKERS, CHECK TAKERS, JANITORS, PROGRAMME SELLERS, ATTENDANTS.

attendant, cinema, theatre; janitor, waiter, and usher; (1) takes tickets at entrance to auditorium and conducts patrons to their seats; sells programmes, chocolate, light refreshments, etc.; covers and uncovers seats; (2) directs patrons in vestibule, acts as doorman, cleans and serves advertisement boards and photograph frames, during performance removes objectionable persons, if necessary.

attendant, ring; prepares arena of circus, tournaments, etc., by carrying loose ring and fixing up perimeter to be used by performer; removes them from ring after performance.

box office clerk, box office keeper; issues tickets and takes money for current or future performances at a box office at entrance to theatre, music hall, etc.; may also deal with telephone enquiries with regard to price of seats and accommodation available; cf. box office telephone operator.

box office manager; is in charge of arrangements for issuing tickets and for booking seats at a theatre, music hall, etc., usually assisted by box office clerk (q.v.); deals with returns from outside ticket selling agencies; renders return of receipts from sale of tickets, etc. to business manager (889) (q.v.).

box office telephone operator; attends to telephone in box office of theatre, music hall, etc., answering enquiries with regard to price of seats and accommodation available, and booking seats for patrons.

check taker; a cinema or theatre attendant (q.v.) who collects checks and tickets from patrons entering auditorium of theatre, music hall, etc.; sometimes directs people to their seats, and performs other miscellaneous duties.

chocolate seller; sells chocolate and other sweetmeats from a tray in theatre or sports grounds and other places of amusement; cf. bookie or seller (890) (T.T.).

collector; general term for person who collects money or tickets at a public entertainment, including check taker, money taker, turnstile attendant (q.v.).

gatemans, see ushers.

green coat; a uniformed attendant who appears before certain and changes numbers at sides of programme to indicate items of programme about to be shown, term almost obsolete.

housekeeper (theatre); is in charge of cleaners (892) (q.v.) at a theatre, music hall, etc., and is responsible for seeing that the work is properly done; in most London theatres, is resident at theatre.

janitor, see attendant, cinema.

lakeman; a uniformed attendant employed in entrance hall of theatre and music halls, etc.; stands at carriage door when patrons are arriving or departing; calls hackmen required by patrons; term almost obsolete.

money taker; is employed at pay desk of cinema, turnstile of sports ground, etc., issuing tickets of admission in exchange for cash.

page (cinema); a uniformed junior attendant at a cinema/theatre; directs patrons to box office and to auditorium; assists cinema attendant (q.v.) generally.

pie gate keeper, pleasure pie gate keeper; takes money or tickets at entrance to pier; issues season tickets, selling tickets, etc.; sometimes acts as barmaid, drink (q.v.) for pier concert, etc.; posts up announcements, posters, etc.

programme boy, girl, seller; (1) sells programmes, etc., often also chocolate and cigarettes, in a public place of entertainment; may show patrons to their seats and/or serve light refreshments in auditorium; (2) sells beer cards, etc., etc., at race course, cricket or sports ground.

stage doorman; a theatrical attendant (q.v.) in charge of stage door of a theatre, music hall, etc., to prevent entrance of unauthorized persons; often also acts as time-keeper (894) (q.v.) and as private telephone exchange operator (756) (q.v.).

stiltman; gate-man; controls people entering circus, exhibition, tournament, etc., and controls traffic at exit gates.

turnstile attendant, man; takes money at turnstile at entrance to sports ground, pier, exhibition, race course, etc.

usher, seat usher, (theatre, etc.); see attendant, cinema, theatre; term almost obsolete.

890.—BOOKMAKERS.

bookmaker; accepts and records bets, i.e., completes book of bets, usually at race meeting; estimates and declares, from time to time, odds he is prepared to give or accept on field or particular horse, or other competitor in sporting or athletic contest.

bookmaker's clerk (course); is employed by bookmaker to accept and record bets, and to compile "book"; also accepts and verifies claims lodged by successful parties to transactions.

bookmaker's runner; *bookmaker's* term; is employed by bookmaker (q.v.) on commission, to accept bets from persons in street, at factory, etc.; illegal occupation.

commission agent, turf commission agent; places bets on behalf of owners or trainers (888) (q.v.) with bookmakers or turf accountants (q.v.); is sometimes paid a small commission, but is usually remunerated by inside knowledge which principle's invitations give him, and which enables him to back horses for himself advantageously, may also place bets for members of general public.

professional bookie; makes a business of betting on races; usually obtains names of horses likely to win from owners and trainers (888) (q.v.); studies form of horses; summarizes losses bet on behalf of owners and trainers, see commission agent.

skive (Epsom); along term, see book.

tip-tat, tip-tacker; takes up position from which transactions in various rings at a race course can be observed and signals to bookmaker employing him, by waving his arms, variations in odds accepted against horses.

tipster; turf adviser; sells to customers on course or through newspaper shops, letters, telegrams, etc., or other agencies, names of horses it is anticipated will win in specified races.

tonk, bookmaker's tonk; *skive* (Epsom); (1) see bookmaker's runner; (2) employed by bookmaker (q.v.) to visit training quarters surreptitiously and attempt to obtain information about chances of trainer's horses.

turf adviser, see tipster.

turf accountant; (England and Wales) a bookmaker (q.v.) who accepts bets from recognized clients on credit system, in which money does not change hands until after race; settles accounts periodically as soon as he has a bookmaker (q.v.) who agreed, (Scotland) a bookmaker (q.v.) who accepts bets and money from clients prior to race; settles account either daily or weekly.

turf correspondent; furnishes racing news and reports to newspapers and sporting journals; selects probable winning horses for publication in sporting columns of newspaper.

899.—OTHER OCCUPATIONS.

acrobat, trambler; entertains audience at music hall, circus, etc., by performing acrobatic feats; a trapeze artist (q.v.) who performs hazardous feats on trapeze, involving the projection of the body through the air at some distance from ground, natural trambler; trains animals to perform tricks and exhibit them before public; greases and feeds animals; keeps cages, kennels, etc., clean.

acrobater; teaches pupils how to use law and acrob.

acrobatic groundman (cricket); helps groundman (q.v.) in mowing and rolling turf, marking out pitch, preparing wicket, watering ground, etc.

athletic artist; entertains at music hall, circus, etc., by display of physical strength and skill in some form of athletics; keeps in training by physical exercises and practice in his particular sport.

baggage-man; (1) is usually employed only at particular theatres or music halls, etc., where different companies appear each week; meets members of company at railway station; arranges transport of properties and scenery to theatre or music hall; delivers personal luggage at lodgings, end at end of week, arranges transport of luggage, scenery and property back to railway station; is occasionally also employed as theatre or music hall attendant (889) (q.v.); (2) is touring or theatrical cover, is responsible for the safe-keeping and insurance of all professional properties, scenery, etc.

ball boy (music courts); attends upon players, retrieving balls and returning them to play; whitens balls and assists groundman (q.v.) to mark out court, erects nets, etc.

billiard marker; keeps account of scores made by players and announces them on scoring board in public billiard hall; allocates tables to players and provides them with balls, cues, chalk and sometimes with refreshment; coaches learners, plays with patrons, and collects fees for use of table.

bowler; a professional cricketer (q.v.) employed by cricket club to bowl at matches; gives batting practice to members; also plays in matches when required.

boxer, professional boxer; pugilist; earns living by boxing in public contests or competitions for prize money; keeps fit and in training by physical exercises, shadow boxing, punching bag, sparring with assistants, etc.; also often acts as instructor.

coddler, coddly, golf coddler; carries clubs for golfer who hires him for the round; assists golfer (q.v.) to mark down ball as it falls or to retrieve ball that is lost, off green close club.

coddle master; takes charge of coddies (q.v.) and, as hiring master, arranges sets; is sometimes in charge of workshop where clubs are repaired and generally works under club professional golfer (q.v.) as assistant professional.

cartoonist; executes "lightning" sketches, usually with charcoal pencil on large sheet of paper, at music hall or other entertainment, or before cinematograph camera.

chairvoyant, see fortune teller.

clown; provides humorous interludes during and between performances at a circus; is usually an acrobat or trambler (q.v.); takes clown's part in harlequinade or pantomime.

coach; teaches members of a sports club, school, etc., the rudiments of games, e.g., cricket, football, golf, and by helpful criticisms assists them to acquire proficiency; may also teach individuals for a fee; is usually a professional player, sometimes retired; sometimes specifically designated, e.g., cricket coach, football coach, rowing coach, etc.

conjuror, prestidigitator, professor of legerdemain; performs sleight of hand and conjuring tricks at music hall, or other entertainment; is very often also a juggler and an illusionist (q.v.); sometimes also a ventriloquist (895) (q.v.).

contortionist; performs feats requiring abnormal bodily contortions, at music hall, circus, etc.

counting skipper; holds dogs in patent leash called a "skip" at dog coursing contests and slogs. *s.* release, leash, by pulling a cord, when signal to start is given; *s.* sometimes a dog trainer or a kennelman (q.v.).

dancing partner (professionally); an expert dancer engaged by proprietor or manager of dancing hall or by individual dancer, to act as partner when required and to teach ball-room dancing for a fee.

dog breaker, dog trainer; trains young dogs to run in coursing races, to perform tricks, to track, chase, etc.; may also break young sporting dogs to gun, teaching them to "point" and retrieve, sometimes specifically designated, e.g. greyhound trainer.

dogman, see kennelman.

equestrian, equestrian artist; performs spectacular feats of horsemanship in circus, tournament, etc.; in private, performs new feats, trains horses; may also groom and care for horses.

equilibrium; performs balancing feats, walking on tight rope, etc., at music hall, circus, etc.; in private, performs new feats, performs exercises to maintain physical fitness.

futurist teller; clairvoyant, *see*; professes to foretell the future by means of cards, a crystal, sand, etc.

golf course man; under the direction of green keeper (q.v.), rolls greens daily for removal of worn casts, mows and sweeps them; mows fairway periodically; cuts rough from time to time; relays young greens when necessary; keeps sand and lime filled; rakes bunkers, etc.

golfer, professional golfer; plays golf in matches for prize; often combines this occupation with expertness of golf course and gives lessons to members of club for fee; usually makes clubs for sale to members or others.

groundsman, ground attendant; keeper of cricket or football field at sports ground in playing condition; supervises mowing and rolling of ground; supervises work of assistant groundsman (q.v.) and laborers, in attending to tracks, fencing, terraces and stands, marking of playing fields with white lines, whitewashing of goal posts, etc., repairing broken nets, clearing up litter from ground, etc.; often specifically designated, e.g. football groundsman, cricket groundsman, etc.

gymnasium instructor, gymnastic instructor; trains youth or class in performance of physical exercise and gymnastics with or without apparatus; visits schools.

gymnast; performs at music hall or other entertainment, a variety of gymnastic feats on horizontal bar, parallel bars, vaulting horse, etc.

huntsman; directs hunt in conjunction with or under orders of master of hunt; assembles hounds at meet; signals commencement of chase and directs followers by the blowing of a horn; prevents hounds from being ridden down; sets snare and break from dog or disposes of stag or other quarry at "kill"; maintains general control of hunt throughout and is in charge of whippers in and hunt servants (q.v.).

hunt servant; assists at hunt generally, waits upon master of hunt, carries terrier; helps to dig out, with pick and spade, quarry that goes to earth; collects subscriptions from strangers and guests; attends to exhausted or injured animals headed over by whips (q.v.); is usually employed in or about kennels or in covert, earth stopping, etc., between meets; cf. earth stopper (p. 910).

illusionist; gives an entertainment in which apparently supernatural or miraculous effects are produced by skill in deceiving the senses, is often aided by special mechanical contrivances; invents new illusions and apparatus.

juggler; entertains by performing feats of dexterity, throwing and balancing.

keeper, athletic ground, cricket ground, football ground, etc.; a groundsman (q.v.) attached to sports ground.

keeper, bowling alley; is in charge of bowling alley; looks after skittles, bowling chases, etc., and supplies them to players; collects fees for use of alley, etc.

keeper, bowling green; keeps in order turf of bowling green by mowing, rolling,

watering and repairing or re-sowing; applies liquid manure from time to time; looks after bowls, shoes, etc., and supplies them to players as required; looks after club premises (at which he sometimes lives); instructs beginners.

keeper, golf green; supervises golf course men (q.v.) engaged in daily rolling of worn casts, mowing and sweeping of greens, mowing fairway periodically and cutting the rough once or twice a year; makes up own dressings for greens; directs relaying of tee greens from time to time; may, in consultation with professional golfer (q.v.) carry out alterations in course, including relaying of putting and teeing greens.

kennelman; dogman; feeds and grooms dogs for racing, coursing or hunting; cleans and linewashes kennels; prepares dogs' food and attends to their health, administering medicine when necessary; usually "slogs" coursing dogs at coursing races, see coursing skipper.

kennel manager; is in sole charge of kennels; supervises kennel men and handles requests for preparing of food for dogs; regularly examines dogs; arranges entry of dogs for shows and for coursing meetings; is an expert in matters of breeding.

lion tamer; an animal tamer (q.v.) who trains lions, tigers and grizzlies, and cleans their cages.

magician, see wizard.

marker (title name); observes and signals effect or score of shots fired by marksmen; usually also maintains birds in good condition, re-sowing targets, etc.

medium, spirit medium; acts as alleged medium of communication with spirits of deceased or other persons.

palmet; undertakes to delineate character and foretell the future by examining palms of hand.

phrenologist; professes to describe degree of development of a person's mental faculties and traits of character by observing and measuring shape of skull; on this basis often advises as to vocation.

preludist, professor of legende-musique; see conjurer.

professional player; for purposes of title, takes part in public exhibitions or competitions of a game or sport; keeps in physical fitness by exercises and practices under direction of a trainer (q.v.) or coach; sometimes acts as coach, trainer or coach to members of a club; usually specifically designated, e.g. professional athlete, billiard player, cricketer, footballer, golfer, boxer, racquet player, tennis player, walker, wrestler.

psychic; professes to exercise abnormal powers; often acts as medium (q.v.).

puttist, see boxer.

Punch and Judy showman; owns and operates Punch and Judy show, a traditional melodrama, performed by puppets, mainly intended for children; operates puppet by hand; is generally a ventriloquist (p. 920) (q.v.).

referee; is sole judge of fair and unfair play of actions, in games of football, boxing matches, etc.; gives decisions in accordance with the laws of the game; usually has been a player of the sport in question, receives a few fee services and usually follows some other occupation when not engaged as referee.

ride range assistant; keeps rifles clean, affixes and removes targets and issues ammunition at rifle range; attends generally to users of range.

ring master (obscure); is in charge of ring at circus, and controls whole of acts and turns.

scoreer, cricketer scoreer; records scores made by players in cricket match and keeps bowling analysis; notifies score to spectators by adjusting scoring board.

score, see fortune teller.

showman's assistant; helps proprietor of fair (p. 920) (q.v.), to fix up or take down stalls, booths, roundabouts, etc., and does odd jobs.

signalman (yacht club); assists judge in controlling yacht racing; starts competitors by signal or firing a pistol; signals finish of racing contestants, etc., and passing of home-boats by each boat.

skate boy; fastens skates on patron's boots at skating or roller-skating rink, with screw clamps.

skate storeman, skate mechanic; repairs skates in racks; cleans skates, and repairs them, when necessary, by inserting new ball bearings, putting on new wheels, etc.; leaves skates to patrons at skating or roller-skating rink.

tennis marker (professionally); is usually a professional tennis player (q.v.), employed by tennis club to record points scored by players.

trainer (football); makes arrangements to ensure that players are kept fit; arranges practice matches, ball practice, walking and other physical exercise; attends matches at which his team is playing, and renders first aid to injured players; is usually a sportsman.

trapline artist; performs difficult feats on the trapline, i.e., a system of bars suspended horizontally by ropes in mid-air.

tumbler, see acrobat.

umpire (cricket); gives decisions according to the laws of the game on points of play when asked; inspects ground to decide whether it is suitable to play on; cf. referee.

whip, whipper-in (to hunt); assists kennelman (q.v.) in controlling hounds; rides parallel to general course of chase urging on dogs and driving to strays; guides in injured or exhausted animals, walking them home if necessary; is usually employed in or about kennels between meets.

wizard; magician; an entertainer (p. 925) (q.v.) who exercises the skill of an illusionist and a conjurer (q.v.) to produce unexpected and illusory stage effects, e.g. materializations and transpositions.

ORDER XXVII.—PERSONS ENGAGED IN PERSONAL SERVICE (including Institutions, Clubs, Hotels, etc.).

500.—DOMESTIC SERVANTS (INDOOR).

attendant, babies' nurse, children's (poor law); watches children, bathes and dresses them, puts to bed, lullabied and serves food, feeds by hand or bottle if necessary; watches health and reports to Matron ailments or accidents; conducts organized games with children.

attendant, larder; assistant to larder cook (q.v.); hands out and puts back food kept in larder, takes meat, poultry, etc., of pots or pans after cooking; slices chickens; assists in carrying and serving up; keeps larder clean, washing shelves, walls and floor periodically; has charge of larder in absence of larder cook.

back house boy, see house boy.

boots; (1) cleans boots and assists generally in private home, e.g. cleans knives and windows, carries coats; (2) see hotel porter (p. 917) and night porter (p. 917).

butter; takes charge of food in larder; renders assistance in all house-keeping and household work; has no voice but is kept; waits at table and answers door; usually in charge of other men servants; cleans plates periodically or supervises cleaning by a member of his staff.

butler, wine; also steward; buys wines and spirits of required kinds and vintages in large private houses; carries in wine cellar; keeps accurate record of stock and examines periodically to ensure that wine keeps in good condition; mixes liquors and cocktails; supplies wine waiter (p. 916) (q.v.).

chambermaid; cleans and tidies bedrooms, makes beds, etc., in hotels, boarding houses, etc.; also attends on visitors, takes orders for meals and refreshment required in bedroom and deals with guests' linen.

chambermaid, house-; is usually *see* *Attendant*; combines duties of housemaid (q.v.) and chambermaid (q.v.).

chef, chef de cuisine; *see* *waiter*; highly skilled cook in hotel, club or large household who draws up menu, prepares special dishes and superintends work of other essential cooks, e.g. pastry cook, soup cook.

college servant; general term to denote a domestic servant in a college, including college porter (311), bed maker (329), gyp (329), sexton (329).
companion, companion nurse, lady's companion; these with employer in a paid capacity; entertains employee with conversation, music or reading; accompanies on excursions, drives and journeys; gives assistance in shopping, planning and arranging details of tours, etc.; helps with correspondence and entertaining of guests; frequently also as tutor, coach, chaperone or nurse.
companion-help; a companion (q.v.) who takes some share in domestic work.

cook; prepares and cooks food, e.g. by boiling, roasting, grilling, baking; mixes ingredients of pastry, cakes, sauces, etc.; is essential establishment may serve meals and cold snacks; in large establishments, receives assistance for cleaning and auxiliary work, or is assisted by individual cooks for roast, fish, sauces, pastry, etc., who are specifically designated, according to kind of cooking done, e.g. breakfast cook, fish cook, grill cook, pastry cook, roast cook, sauce cook, soup cook, vegetable cook; cf. chef.
cook, apprentice; watches cook (q.v.) in his or her work; receives instructions and assists by handling articles, measuring quantities and performing simple cooking operations; passes in turn through each branch of work, e.g. pastry, roast, soup.

cook, daily; a non-resident cook (q.v.).
cook, larder; stores meat, poultry, poultry, etc., in larder or cold storage, etc.; is responsible for keeping stores in good condition; hands out stores required to other cooks; keeps clerical record of stock in and out; usually also cooks, serves and may serve joints.
cook, messroom; a cook (q.v.) who prepares and cooks meals for messroom of factory, institution, etc.

cook-general; combines duties of cook (q.v.) and general (q.v.) in small private home.
cook-housekeeper; combines the duties of cook (q.v.) and housekeeper (q.v.).
counter hand; (hotel, restaurant), see maid, stillroom (hotel, restaurant).

countess, see chef.
daily servant, daily girl, day servant, day girl; morning girl; a non-resident general servant (q.v.).

farm boy (domestic); does heavier domestic work in farmhouse, e.g. drives water, chops wood, etc.; may also assist on farm at harvest and other times; cf. farm laborer (324).

footman; attends door, carriage, table, etc.; cleans silver; may act as valet; sometimes takes partial charge of pantry, under supervision of butler (q.v.).

general, general maid, general servant; maid, maid-servant; performs general domestic duties in a small private establishment where only one servant is employed; exact duties vary with size of household and amount of help given by mistress of the house, but may include dusting, scrubbing, washing-up, auxiliary work, washing and ironing, making beds, plain cooking, shopping, tending children, etc.

general (farm); a general servant (q.v.) working in a farm house who may also do milking, buttermaking, poultry feeding, etc.

general hand; employed to do any odd job or domestic work in hotel, inn, etc., such as rough cleaning of floors, yards, stables, carrying stores, etc.; cf. charwoman (322).

grill hand; a cook (q.v.) who cooks or broils meat or fish on a grilliron over coal or coke fire.

groom of the chambers; first footman (q.v.) in large households.

house boy; see house boy; works in "back house" which includes both kitchen and stable; assists maid servant in cleaning boots, knives, etc.; see farm, sometimes milks cows.

housekeeper; is charge of women servants, and responsible for entering accounts, selection of staff, stores and linen; in small hotels also allocates visitors to rooms.

housekeeper, working; takes entire working charge of small household, usually employed where there is no mistress; combines duties of housekeeper,

cook and general servant (q.v.); may be assisted in rough work by charwoman (322) or daily servant (q.v.); may also do sewing and tend children.

housemaid; a resident domestic servant (usually one of a staff of two or more servants) whose duties include dusting, living rooms, cleaning bedrooms and hall, looking after fire and cleaning silver; frequently also lays and waits at table, assists with mending of household linen, where no parlourmaid (q.v.) is kept; cf. general.

housemaid-general; a housemaid (q.v.) usually employed in a boarding house, who scrubs and does rougher work than is usually required of a housemaid.

housemaid-waitress; combines duties of housemaid (q.v.) and waitress (316) (q.v.) usually in a boarding house.

kitchen girl, kitchen worker, see maid, kitchen.

knife boy, knife man; cleans knives, blades, and carries coal.

lady help; *waiter's help*; an educated woman of similar social standing to employer, who assists in household duties, which vary according to size of establishment and may include supervision of servants, arrangement of rooms and flowers, care of children, needlework, dusting, cleaning, cooking, shopping, etc.

linen attendant, linen keeper, see maid, linen.

maid, maid-servant, see general.

maid, basement, see maid, kitchen.

maid, between; assists both cook (q.v.) and housemaid (q.v.); usually a young girl in training.

maid, caller; attends to callers in a large establishment; when business is at home, sometimes names of callers at drawing room door; cf. hall maid.

maid, children's, see nurse, under.

maid, china; employed in large establishment, cleaning china, glass, etc.

maid, coffee-room; coffee maid; combines the duties of stillroom maid (q.v.) and waitress (316) (q.v.) for coffee bar.

maid, corridor; cleans and polishes the corridor, hall, stairs, etc.; also carries and assists the chambermaid.

maid, dispense; keeps stock of wines, spirits and liquors, also of tea, in hotel; serves out supplies to waiters (316), waitresses (316), stillroom maids, etc.

maid, hall; attends the front door; under-takes various light tasks in the house and gives general assistance to the housekeeper (q.v.); cf. cellar maid.

maid, head; senior maid of a group in a large establishment; responsible to housekeeper for her own work and that of other maids under her; sometimes specifically designated, e.g. head housemaid, head parlourmaid.

maid, house sewing, see maid, useful.

maid, house table, see parlourmaid, housemaid, kitchen, *Altena girl, kitchen worker, basement maid*; (i) in large hotels and institutions, prepares and sometimes cooks, vegetables; (ii) in small hotels and boarding houses and large private establishments, cooks and cleans, prepares and cooks vegetables for household; if only one cook is employed, takes her place when she is absent; (iii) in small private establishments, also cleans kitchen and washes up dishes.

maid, lady's; assists mistress with toilet and dress-making, hairdressing, packing, washing and ironing of dresses, lace, etc., mending and darning.

maid, linen; *linen room maid*; does attendant, linen keeper; is responsible for both soiled and clean linen; counts and checks in and out, both house and visitors' laundry; also dries and renovates linen, unless sewing maid is kept.

maid, mess-room (institution); lays table, serves food, cleans away, scrubs floor of staff messroom, cleans boots and paints clean cutlery and sometimes washes dishes, etc.

maid, mess-maid; a chambermaid (q.v.) who works on mess-table floor.

maid, odd; in large establishments assists any of the maids as required; doing such work as carrying, cleaning, scrubbing, washing-up.

maid, pantry; in large private establishments or boarding houses, lays and waits at table, usually in servants' hall; washes china and glass and cleans up in pantry; cleans some of table silver.

maid, pastry; prepares and cooks pies, tarts and other articles of food, made of pastry.

maid, sandwich; prepares light refreshments for meals other than principal meals; also acts as waitress, a stillroom maid (q.v.) employed in restaurant or hotel, mainly engaged in preparation of sandwiches.

maid, schoolroom; does waiting for the older school girls; keeps schoolroom clean and serves up meals; may be required to accompany older school girls out of doors.

maid, butler's; cleans kitchen premises; washes dishes and cooking utensils; may also clean and tidy servants' bedrooms and lay table for staff meals; usually employed only in large private establishment, hotel or institution.

maid, service room, see maid, stillroom (hotel, restaurant).

maid, serving; in hotels and boarding houses conveys food from kitchen to service room; or assists cook to serve food through service hatch; sometimes assists waitress (316) (q.v.) in removing used plates, etc., to scullery.

maid, sitting room; a housemaid (q.v.) in hotel or boarding house whose duties are mainly concerned with sitting room.

maid, staff (hotel); (i) a chambermaid (q.v.) in hotel who cleans and cooks, lays and cleans table, serves meals in staff dining room; in small hotels combines both sets of duties.

maid, stillroom; *stillroom maid*; (i) in private establishments, prepares bread, wines, pickles, preserves, etc.; (ii) in hotels, restaurants, etc., conveys food, service room and; prepares tea, coffee, sandwiches, toast and various light dishes; is responsible for maintaining hot water supply for beverages; may be required to serve at buffet, soups; sometimes cleans cutlery for serving counter dishes.

maid, tea; prepares tea and light dishes, also gives assistance to parlourmaid.

maid, useful; *house serving maid*; serves, mends and does a certain amount of waiting; performs light household tasks such as dusting, tidying rooms; in some cases she has care of linen cupboard.

maid, vegetable; a cook (q.v.) who specializes in preparation and cooking of vegetables of all kinds in large establishment where several cooks work under a head cook.

man-and-wife; a term used when both a man and woman servant are required to give domestic service in the same household; man employed on a variety of duties (butler, gardener, porter, etc.), woman usually doing cooking and general household duties.

master's servant (workhouse); waits on, attends to personal needs and cleans quarters of workhouse inmates.

morning girl, see daily servant.

mother's help; (i) see nurse, domestic; (ii) see lady help.

nurse, children's, see nurse, domestic.

nurse, daily; a non-resident domestic nurse (q.v.).

nurse, domestic; *children's nurse, mother's help, nursemaid, nurse serving maid*; takes charge of children or babies; wakes, dresses them and feeds them; prepares and serves special foods for them; sews, mends, dries, cleans nursery, and does children's washing if required.

nurse-housemaid; combines duties of domestic nurse and housemaid (q.v.).

nursemaid, see nurse, domestic.

nurse sewing maid, see nurse, domestic.

nurse, under; *children's maid*; does housemaid's work in nursery; assists and waits on head nurse (see nurse, domestic); does rougher work such as children's washing.

nurse, wet; a nurse (q.v.) who takes the place of the mother in breast feeding very young babies.

nursery governess; a woman teacher, resident in a private household, entrusted with care, management, and education of children under school age in the nursery.

old man, see for handyman (323).

page, page boy; runs errands, waits on door, performs occasional household duties; cf. door boy (317), hall boy (317).

pantry-maid, pantry boy; (i) in large private establishments butler to do in pantry, fire, cleans boots, cleans pantry, makes up fires and carries coal in front of par-

house; works under direction of butler (q.v.); (3) in hotels cleans glasses and pots in pantry and sometimes does work of scullerymaid (q.v.).

parlourmaid; parlourmaid; has charge of china, silver and glass; lays table for all meals and waits at luncheon and dinner; attends to living and reception rooms; answers from door bell and summons visitors; occasionally mends and darts table linen; may be required to care and have knowledge of wine, and to undertake valuing; usually employed in private and boarding houses where there are no footmen.

parlourmaid, house; house table maid (in Scotland); in small households combines the duties of housemaid (q.v.) and table or parlourmaid (q.v.) where only a cook and a maid are kept.

plateman; cleans plate, silver, etc., by means of plate powder or liquid applied with plate brushes; polishes with cloths and leather; in private houses works usually done by footman (q.v.); in hotels may operate plate cleaning machine, i.e., places articles in revolving barrel with powder, switches on electric current and removes polished articles after a fixed time, giving final polish with brush and cloth.

porter; house porter; attends at outer door of large private house, receives tradesmen, prevents entrance of unauthorized persons, traps, etc.

porter, kitchen; (1) acts as general porter for kitchen, carries in meat, vegetables, water, etc.; (2) in a residential college, carries meals to students in their rooms or lodgings.

porter, scullery; a house porter (q.v.) who does heavy work in scullery, carrying water coals, etc.; assists scullery maid in cleaning premises.

scourer; a kitchen maid (q.v.) or boy principally employed in cleaning cooking utensils.

scullery man, or, for maid, scullery; service room hand, see maid, scullery.

steward, house; manages domestic concerns, supervises service, collects rents or incomes, keeps accounts, etc.

steward, wine, or butler, wine.

tablemaid; (1) see parlourmaid; (2) waits at table in staff dining room.

valet; (1) undertakes personal duties for his employer; assists with toilet, looks after clothes, packing, etc.; (2) if male is employed by proprietors of set of service beds to wait for female.

waitress, house; in small hotels combines duties of housemaid (q.v.) and waitress (q.v.).

wardmaid (hospital, etc.); scrubs and polishes floors, doors, cleans brasses and disposes; makes up linen, washes up dishes used in hospital wards.

wardrobe keeper (schools, etc.); assists mistress of boarding school by taking charge of pupils' clothing; does necessary mending; prepares clothes for despatch to laundry.

910.—GAME KEEPERS AND GAME WATCHERS.

beak watcher, or water bellif.

decoy keeper, decoy man; erects wire netting turreted traps on lake and marsh waters for decaying of wild ducks, etc.; sets decoy ditches; kills ducks so trapped and sends to market.

deer park keeper; tends deer in private or public park at fixed times; drives deer into fold for night where necessary; generally attends to upkeep of deer park; repairs and sets up fences for fold; promotes growth of grass by scattering manure or soil; keeps watch that deer are not molested.

deer stalker; acts as guide to sportsmen hunting deer, directs stalking operations.

earth stopper; stops up rabbit holes, demolishes burrows in banks, etc.

fishery keeper, fish keeper (river); is water bailiff; cf. fish breeder (909).

fish watcher, or water bailiff.

gamekeeper; is responsible for the breeding, feeding, and general care and preservation of game; traps, guards against trespassers, lays traps for and destroys vermin.

keeper of fox cover; keeps trespassers from disturbing fowls in their dens; provides fowls with food if necessary, especially at breeding time.

rabbit breeder; warren, warren holder; in charge of privately owned rabbit warren in which rabbits are bred for game; keeps wire netting enclosure fence in repair; sets traps for and shoots vermin; permits ground to keep off poachers; places food for rabbits but not animal food (insufficient); kills and prepares rabbits for table or market, when required.

rabbit catcher or destroyer, or for rabbit catcher (909).

river bailiff, keeper, warder or watcher, or water bailiff.

trapper, or for rabbit catcher (909).

warren, warren holder, or rabbit breeder.

water bailiff, keeper or watcher; bank watcher, fishery keeper, fish keeper (river), fish watcher, river bailiff, keeper, warder or watcher; patrol rivers and lakes to see that local by-laws for protection of fish, etc., are observed, keeps off trespassers and fish poachers; sometimes also breeds fish, see fish breeder (909).

911.—RESTAURANT KEEPERS.

bar keeper (coffee house), or coffee house keeper.

buffet manager, buffet manageress; manages buffet or refreshment counters; supervises staff, supply of provisions and sale of refreshments.

chief proprietor, or, for coffee house keeper (q.v.); but usually catering for better class of customer.

canteen steward; keeps stores, orders provisions, arranges service, responsible for cooking and distribution of food in canteen, also for cleanliness; keeps books, supervises staff; in large canteen duties are purely supervisory; in smaller canteens, performs few or many of the tasks himself, including cooking, according to number of staff employed.

owner; (1) buys provisions for a large household; checks prices, keeps accounts; (2) owns or manages business carried on for purpose of providing meals for public; buys, prepares, cooks and serves food and drinks either as own premises, i.e., in hotel, restaurant, café, or for special occasions, e.g., balls, garden parties, on premises provided by clients; actual duties vary greatly according to size of business from purely proprietary interest in actual execution of practically all tasks.

chip potato bar keeper, chip potato ehop keeper; sells chip potatoes and generally fried fish also, for consumption on and off premises; usually performs actual cooking in all corners.

ehop house keeper, or dining room keeper.

club stewardess (golf); provides, cooks and serves food to members on club premises; tends bar, cleans premises, waitresses arranges reading room; makes beds and tidies bedrooms if club is residential; duties vary from manual to supervisory according to size of club and number of staff employed.

coffee house, room or tavern keeper; coffee keeper (coffee house); is manager or proprietor of coffee house, where usually only light refreshments are sold.

coffee stall keeper; prepares and sells coffee, tea and light refreshments at a stall or refreshment stand, of fixed or movable character; cleans stall, washes dishes; usually owns stall, but sometimes holds it on tenancy.

dining room keeper, cook shop keeper, eating house keeper; proprietor or manager of establishment which provides meals of a cheaper variety.

ehop keeper; sells stewed eels and ale pie, generally in conjunction with the sale of tripe or fried fish; usually does actual cooking; proprietor or manager.

fish and chip dealer, fried fish ehop keeper; prepares, fries and sells fish and chip potatoes; frequently also cooks and sells tripe, trotters, cowhebe, peas, etc.

innochee bar keeper; owns or manages eating chamber in which luncheon and light refreshments are provided mainly for consumption on the premises; purchases provisions, cooks and serves from counter of

bar; actual duties vary with size of business and number of staff employed; in small establishments, may do all work himself; in large establishment is usually supervisor only.

meat contractor, meat contractor; undertakes to supply provisions or meals on a large scale at a fixed price, for messes of various kinds.

mess caterer, mess superintendent (army); orders provisions from head-quarters, e.g., Navy, Army and Air Force Institutes; keeps stock, checks prices; supervises staff of cooks and waiters, preparing and serving meals for army officers and N.C.O.s; sometimes serves wine; usually an officer in civil government employ; duties mainly supervisory and clerical.

oyster bar or room keeper; sells oysters, mainly for consumption on the premises, where oysters only are sold and no cooking is done.

pea shop keeper, pea-pudding ehop keeper; sells cooked peas or pea-pudding, with or without other food, e.g., tripe, fish, etc., for consumption on or off premises.

pleasure gardens proprietor; (see garden proprietor); owns a pleasure garden in which are usually sold tea and light refreshments; sometimes also provides amusements, for which a charge for admission is levied.

refreshment room contractor; undertakes to supply refreshments, usually on a large scale, at a certain price or rate; staff and some refreshment rooms on railway stations, in place of amusement, etc.

refreshment room proprietor; owns or manages establishment, where are sold tea, coffee and light refreshments for consumption on or off the premises, which may be licensed or unlicensed.

restaurant keeper, restaurateur; owns or manages restaurant where refreshments or meals may be procured by the public, usually for consumption on the premises; for duties see caterer.

ehopper bar keeper; cooks and provides supper of a cheap variety.

tea and pudding proprietor, or pleasure gardens proprietor.

temperance buffet manager or manageress; as for buffet manager (q.v.), but holds no license for sale of alcoholic liquor.

tripe ehop keeper; sells tripe, usually obtained ready cooked from the tripe dealer; may re-cook tripe and serve hot with onions, etc., for consumption on or off the premises.

912.—LODGING AND BOARDING HOUSE KEEPERS.

baby farmer, or foster mother; child-sweat term.

company house keeper, or keeper, boarding house.

deputy (lodging house); is appointed to act in place of or as assistant to lodging house keeper (q.v.); performs similar duties under supervision.

foster mother; baby farmer, nurse mother; performs the duties of a parent to the child of another for money payment, the actual terms of contract varying greatly in individual cases, e.g., clothing may be provided by either blood or foster parents; must comply with regulations of Children's Act, 1908, as to conditions under which foster children may be taken; must submit to inspection by officers of local public health authority.

hydro manager; supervises domestic arrangements, catering and general care of building and visitors to hydro or large boarding house in health resort.

keeper, boarding house; company house keeper; proprietor or lessee of house school in furnished apartments; provides, cooks and serves meals; amount of actual management and staff varies with size of establishment and staff employed.

keeper, lodging house; proprietor of common lodging house where beds are let to casual visitors at a low charge; usually takes part in domestic duties of house such as cleaning, bedmaking, preparing food.

landlord, landlady (lodging); is owner or lessor of a house or building, and sublets rooms or apartments of a house, gives attendance and supplies and cooks food if required.

manager, manageress (lodging); (*steward, stewardess, lodging house*); supervises, on behalf of proprietor, domestic arrangements, catering and general care of lodging house, boarding house or hotel and welfare of visitors.

matron (lodging house); supervises domestic arrangements, catering and the general care of the household of a lodging house, etc.

nurse mother, *see foster mother*.

sanatorium proprietor; owns and controls private sanatorium; often a qualified medical man, attending patients or residents professionally; selects cases for admission; engages staff; controls finances.

steward, stewardess (lodging house), *see manager (lodging)*.

superintendent (hotel); manages a hotel or boarding house for a particular class of residents, e.g., students, nurses, etc.; provides meals; supervises necessary staff.

913.—MATRONS AND STEWARDESSES IN SCHOOLS AND OTHER PRIVATE INSTITUTIONS.

governesses' institution keeper; keeps a hotel or boarding house for governesses, *see boarding house keeper*; usually also runs an employment agency, *see employment bureau manager (771)*; cf., *house mother*.

hotel steward (school), *see steward (hospital, etc.)*.

house mother; (1) responsible for the general care of the members of a household or small community, performs some of the (ii) in poor law cottage homes in charge of group of 10 or 12 children and takes place of mother; manages house or cottage with help of elder children, buys food, prepares meals, mends clothes; reports illness to superintendent at central home.

nurse (hospital), *see superintendent (hospital)*.

matron (hospital, institution, training college); supervises domestic arrangements, catering and has general care of institution premises; in some cases is primarily responsible for catering and kitchen staff; in other cases is specifically excluded—the duties varying according to type of institution.

matron of school; supervises the women's staff; is responsible for general welfare of the resident scholars; in some instances takes charge of the mending of children's clothing and care of linen.

procuratrix; purchases directly or by proxy all food and other commodities required by an institution.

steward (hospital, hotel, etc.); *hotel steward (school)*; is responsible for the catering arrangements and supervises the men's staff; buys the stores required; engages and pays the staff.

superintendent (hospital, etc.); *matron*; supervises all departments of a hospital or institution and is responsible for the general management of the establishment, including provision of medical stock, etc. warden (orphanage), *see matron*.

914.—INN, HOTEL-KEEPERS, PUBLICANS, BEER-SELLERS.

ale agent; purchases ale of particular brand in large quantities from brewery; receives and executes orders from retailers or consumers for consumption of ale; premises; usually deals also in other alcoholic liquors; actual duties vary greatly according to size of business and staff; sometimes owns bottling stores in which ale received in casks is bottled by staff; may himself canvass for orders or employ travellers.

ale dealer; buys and sells ale, and other alcoholic liquors, wholesale as middlemen; cf., *ale agent*.

bar keeper; keeps or tends a bar, for sale of alcoholic liquors for consumption on or off the premises.

basement manager; in large hotels performs work of hotel foreman (q.v.)

beerhouse keeper; proprietor of shop in which he sells beer for consumption on or off the premises.

beer retailer; sells beer, in small quantities, direct to consumer for consumption off the premises.

brewing victualler; brews the liquors sold on the premises and also supplies provisions or refreshments.

canteen manager (wv); buys supplies for and is in charge of canteen supplying alcoholic liquors as well as food and non-alcoholic drinks.

hotel controller; checks waiters' service bills and money taken; sees that all contracts for supply of food, etc., are fully carried out; checks expenditure and keeps it within proper limits; keeps accounts, usually with assistance of bookkeepers and clerks (893), whom he supervises.

hotel foreman; is in charge of male cleaning maintenance and portage staff; often acts for hotel keeper in engagement, discharge and removal of staff; duties are usually superintending but in small hotels is frequently also a general utility man.

hotel inspector; visits hotels run by syndicates or brewers, etc., and checks stocks and receipts; tests spirits and wine for specific gravity; reports on general arrangements, management and similar matters.

hotel manager; manages and conducts the business of hotel; engages and supervises staff; orders supplies of food and other necessities; deals with complaints; responsible for accounts, expenditures and general good conduct of hotel.

hotel proprietor; owns and controls one or more hotels; frequently also acts as manager (q.v.) of one of them.

inn keeper, landlady (inn), landlord (inn); (*see inn keeper*); owner or manager for owner or syndicate, an inn (a small country hotel).

licensed victualler; provides victuals or refreshments and also sells alcoholic liquor for consumption on the premises of hotel, inn or public house.

off-licence shop assistant; serves customers with liquor in a beer, wine and spirit shop for consumption off the premises.

provider (gun store, dockyard); a cantinier manager (q.v.) in a gun store or dockyard.

publican; manager or owner of public house licensed to sell beer and often wines and spirits also, either on or off the premises.

railway refreshment room manager; serves supplies of food and drink for and generally superintends railway refreshment room.

tavern keeper, *see inn keeper*.

temperance hotel keeper; manages an unlicensed establishment, available for the reception of guests, and frequently including a restaurant or café, open to the public; duties *see for* hotel manager (q.v.).

915.—BARMEN.

barman, barmaid, bar assistant, bar attendant, bar tender; attends to and serves customers with beer, spirits, food, etc., at the bar of hotel, inn, etc.; in small establishments may be required to undertake certain domestic duties, e.g., cleaning bar, counters, washing glasses, dusting; sometimes specifically designated, e.g., *outdoor barman*.

beer carrier; a pot boy (q.v.) who delivers sets of bottles of beer from public-house to customers for consumption off the premises.

licensed victualler's assistant, *see for* barman.

potman, pot boy; collects up empty glasses, etc., in hotel, public house, etc.; cleans cellar and performs any odd job such as cleaning the bar, brass-work, washing glasses, etc.

tapster; draws liquors from cask, by inserting tap through bung; originally a synonym of barman; work mostly done by cellarman (455) (q.v.).

916.—WAITERS.

waiter (refreshment room); usually a punctuated waiter or waitress, who arranges tables, in dining or refreshment room, shows customers to seats, reserves tables when required, and generally overlooks work of waiters or waitresses at a certain number of tables.

waiter, waitress (buffet, canteen, hotel, smoke-room, etc.); sets tables and serves customers or guests with food from service room, stillroom, bar or kitchen.

waiter (casual, jobbing, occasional, private); a waiter (q.v.) who hires out his services for special functions.

waiter, commit; youth learning business of waiter, makes waiter by fetching dishes from service room or kitchen; performs minor waiting duties; often cleans tables.

waiter, day; sets and waits at tables during day meals.

waiter (domestic); a waiter (q.v.) who sometimes performs duties of footman (360) (q.v.).

waiter, wine; supplies guests or customers with wine, spirits or meals, usually obtaining supply from wine butler (360) (q.v.), but sometimes buying it off the premises.

917.—HALL AND HOTEL PORTERS; DOORKEEPERS AND CARRIAGE ATTENDANTS.

door attendant; hall man, hotel attendant, lobby boy or man, hall porter; guards public entrance to prevent entry of unauthorised persons; opens and closes door, receives visitors or callers; (in hotels, etc.) sees to luggage, carries it to bedrooms or directs other porter or boy to do so; replies to telephone calls, posts letters left for post collection; duties vary according to size of establishment.

doorboy, *see for* porter (360).

doorkeeper; is employed at entrance to office, hotel, etc., directs visitors to offices, etc., required, and to keep post unauthorised persons.

doorman (doorman); stands at entrance to cinema, preserves order in entrance hall, directs cinema; cleans brasswork, etc., and does other odd jobs when cinema is closed to public.

hall boy, *see for* porter (360).

hallman, lobby boy or man, *see door attendant*.

night watchman (hydro), *see porter, night*.

porter, cloak, *see for* door attendant.

porter, college; is in charge of gate at a college, answers enquiries; at resident college, looks after at first hour; takes names of students entering late.

porter, day, *see porter, hotel*.

porter at flats, *see porter, resident*.

porter, hall, *see door attendant*.

porter, hotel; is in charge of porter staff in hotel, hotel, club or private establishment; supervises and allocates work; responsible for discipline.

porter, head (hospital); supervises work of hospital porters (928) (q.v.) and is responsible for the work and conduct; reports cases of misconduct or unsatisfactory work on part of porters to office; keeps record of cases coming into hospital, and sometimes assists in clerical work of office; on occasional occasions, he is present at the work of the ward of infection of hospital; is usually employed on duties similar to those of hospital porters, e.g., answering inquiries and directing visitors or patients to wards or departments, answering telephones, and delivering messages by telephone, calling doctors, passing and putting letters, carrying patients to wards or to the operating theatre.

porter, hotel; day porter; acts as general porter, and carries guests' luggage in and out, up to rooms, etc.; in small hotels, may also perform odd domestic duties, e.g., carrying coals, cleaning brass-work, cf., luggage porter (729).

porter (lodging); opens door, attends to messages, and guards main entrance to lodging house to prevent entry of unauthorised persons; may also clean premises, except bedrooms.

porter, night; night watchman (*hydre*); attends to hotel visitors during night, acts as watchman, receives late arrivals, and arranges for their accommodation; in large establishments supervises cleaning (main hall, staircase, public rooms) done during night.

porter, resident; *porter at hotel*; a resident official in charge of residential dwellings, on behalf of proprietor; keeps keys of vacant flats, answers enquiries; is responsible for care and cleanliness of property; sees to central heating, etc. **porter, school**; a responsible man, employed at school, entrusted with miscellaneous duties which vary as between schools, such as keeping the gate, ringing the bell at certain hours, making appointments, leaving stationery, putting lights out and locking up buildings at night.

porter, station; mania trains and conveys luggage of visitors to and from hotel, or outside porter (*TSR*).

porter, stores; supplies and conveys from stock stores to the various departments of a large hotel. **postman, private**; carries letters and parcels between post office and hotel, sees to despatch of letters in hotel boxes and attends to general postal requirements of hotel visitors.

918.—LAUNDRY WORKERS; WASHERS, IRONERS MANGLES

blocker; a shirt or collar machinist (*q.v.*) who carries out one stage of the ironing of starched collars or starched parts of a shirt on an ironing machine.

bluer; receives clothes from rinse and places them in bluing water to whiten. *i.e.* correct yellowing; makes fresh bluing water from time to time by dissolving blue in water.

body ironer; lays articles of body linen, e.g. shirt bodies, in position on a body linen ironing machine; sets machine in motion and changes position of garment to expose unstarched parts to action of machine; stops machine and removes garment, when smooth and dry.

house ironer; a shirt machinist (*q.v.*) who irons fronts of stiff-fronted shirts on a special ironing machine.

collender hand, **collender minder**, **collender**; several terms for women or girls employed in ironing flat articles, e.g. sheets, towels, tablecloths, in a laundry, by passing them through a collender; works either in front of or behind machine; includes shaker out, feeder, taker off, and folder (*q.v.*).

collender, see taker-off.

chooker, see marker.

clear starcher; a starcher (*q.v.*) who starches curtains, dresses, etc., with boiled starch.

collar curler, see shaper.

collar dresser, see collar machinist.

collar ironer (hand); irons, polishes and curls collars by hand using special iron.

collar machinist; **collar dresser**; general term for any person ironing starched collars by machine in a laundry, including collar curler (or shaper), blocker or polisher (*q.v.*).

copper woman; stands at copper in small laundry, putting in "whites" (i.e. for boiling and taking them out later, when sufficiently cleaned).

coupler, see packer and sorter.

cut ironer; a shirt machinist (*q.v.*) who irons starched cuffs on an ironing machine, curtain stretcher, etc. **framer.**

cylinderer; lays out the silk, etc., on steam-heated copper cylinder to dry and be finished.

decoumum hand; a collender hand (*q.v.*) who attends a special mark of collender, called a decoumum.

dollyman, see washing machine attendant.

domestic laundry worker; **laundrywoman (domestic)**; does any work in a small domestic laundry or private house such as washing, ironing, sorting, etc.

dryer; takes work from hydros, hangs on frames and passes it through drying room, **examiner**; examines articles after washing, drying or dressing for best work and for any defects or stains caused by process.

feeder; a collender hand (*q.v.*) who receives "flat" work (towels, blankets, etc.) to be ironed from shaker-out (*q.v.*) and places article as flat as possible between moving rollers; keeps it flat and straight, guiding it with hands.

finery machinist; general term for any person ironing delicate articles by machine in a laundry.

folder; a collender hand (*q.v.*) who folds by hand work after it has been taken off the collender, or ironing machine, by taker-off (*q.v.*); stacks folded articles on adjacent tables or places on racks; sometimes works with another folder for large articles.

framer, curtain framer; **curtain stretcher**; stretches blinds and curtains on frames and runs frames on to heated presses to dry curtains; usually done by collender hand (*q.v.*).

glosser, see polisher.

go-ferrer, go-ferrer; holds and manoeuvres folds of body linen, curtains, etc., between smoothing jaws of power puffing machine; steps and starts machine by foot lever.

hand ironer; smooths articles of wearing apparel, bed or table linen by hand by rubbing on table with stove heated, electric or gas iron.

hand washer; washes by hand silk, coloured articles, fansels, etc., that cannot safely be washed in machine.

hang-up; hangs up clothes on drying racks or on lines out of doors; *cf.* dryer.

house laundrymaid; combines duties of housemaid (*q.v.*) and laundrymaid (*q.v.*).

hydro attendant, hydro hand, hydro man; places wet linen in centrifugal hydro extractor, which drives water out of articles; empties and generally attends to machine.

ironer (flat iron); carries flat irons to and fro between ironers and heating stove.

ironer; may be either hand ironer or collar or shirt machinist (*q.v.*).

launderer; general term, applying to all units within a laundry.

launderess; **laundrymaid**; general term applying to all women workers in a laundry or on laundry work in private house or institution.

launder hand (bath); washes by hand towels and costumes which have been used by bathers; in large establishments may use washing machine and collender.

launder keeper; owns and in many cases manages a laundry.

laundermaid, see laundress.

laundermaid (domestic); washes, starches, dries and does clothing and household linen in private house.

launderman; washwoman, washer; receives soiled linen from sorters and puts it in washing machine; first "breaks down" linen in warm or cold water, then boils up clothes in fresh water, rinses with fresh warm water and "blues" (*see bluer*).

launderman (domestic), *see domestic laundry worker.*

launder worker; general term for any worker in a laundry.

machinist, see collar machinist and shirt machinist.

manager, managereuse; controls and organizes the staff of the laundry; sometimes makes up the starch solution.

marker keeper; a manager (*q.v.*) who does mangle for persons doing their own washing.

mangler; puts dampened linen, etc., through hand or power driven mangle to smooth out creases; folds linen by hand both before and after mangle.

marker, checker, taker; examines articles received to find customer's private marking or defects (i.e. holes or tears) in materials; "marks" or "tags" article and enters it in ledger before sending to sorting section; marks defects by stitching round the hole in red thread and notes them in a book.

neck bender; a shirt machinist (*q.v.*) who irons starched neckbands of shirts on specially constructed ironing machine.

packer and sorter; **coupler, packer, sorter**; examines, checks on lists, packs and sorts cloth as received from customers; sorts the clean linen, checks articles by customers' lists and packs in parcels or hamper.

polisher, collar polisher; **glosser**; a collar machinist (*q.v.*) who receives ironed and starched collars from the blocker (*q.v.*) and irons them again on special glossing machine.

preparer; damps down; *i.e.* sprinkles water upon dried work and folds it for pressing.

receiver, see receiving office assistant (TSR); may also do work of packer and sorter (*q.v.*).

rinsor; receives clothes from washing machine attendant, rinses them in fresh warm water, either by hand or in rinsing machine, and passes them to bluer.

shaker-out; a collender hand (*q.v.*) who shakes out creases from wet "flat" work (*q.v.*) at collender (*q.v.*) in readiness for feeder (*q.v.*) at collender machine.

shaper; **collar shaper**; a collar machinist (*q.v.*) who receives collars after they have been blocked and polished, and passes them through a special machine which shapes or curls them.

shirt and collar dresser, shirt and collar machinist; a laundry machinist who combines the work of both shirt machinist and collar machinist (*q.v.*).

shirt blocker; irons by hand back skirts, etc., of starched, the starched parts of which have been dealt with on a machine.

shirt dresser, see shirt machinist.

shirt ironer; irons shirts throughout, both starched and unstarched, usually by hand.

shirt machinist; **shirt dresser**; general term covering any worker engaged in ironing the starched parts of shirts on ironing machines, and includes house ironer, shirt ironer, neck bender, and blocker (*q.v.*).

sorter, see packer and sorter.

starcher; soaks clothes, etc., in starch solution in tub at machine; then passes through wringer covered wringer to remove excess of starch.

steam presser operator; places articles flat on steam-heated bed of machine; pulls down weighted lid by means of lever and presses article.

starcher, see marker.

taker-off, collender; a collender hand (*q.v.*) who takes clothes, linen, etc., from back of collender (ironing) machine and passes to folder (*q.v.*).

washer; may be either a hand washer (*q.v.*) or washing machine attendant (*q.v.*).

washwoman; wash private families for the washing of clothes, household linen, etc., or takes in washing at her own house.

wash-house foreman; superintends work of other wash-house men in laundry, wash-house man, wash man, *see laundryman.*

washing machine attendant; **dollyman**; places work in rotary washing machine, adds water, soap, soda, etc., as may be necessary; starts and stops machine by switches or levers; regulates the time of the process; removes articles when finished.

wet cleaner; washes by hand in a careful and scientific way, using a small brush and various special soap solutions.

wringer attendant; operates hand or power driven wringer to extract surplus water or starch from clothes, linen, etc.; decides time between rollers from board; starts and stops machine by means of levers.

919.—MANAGERS, ATTENDANTS OF BATHS AND WASH-HOUSES.

attendant, bath (hydre); a private bath attendant (*q.v.*) who also gives treatment, undertakes pouring, and sometimes serves the patient meals.

bath attendant, public baths attendant; attends swimming bath attendant; allows swimming bath, is responsible for their general cleanliness, and supplies towels and costumes if required.

bathing attendant, bathing machine attendant, bathing places attendant; allocates bathing machines, boxes or tents; is responsible for their general cleanliness, and provides towels and costumes if required.

bath keeper, see superintendent (baths).

bath man; prepares baths and sometimes manages the body for remedial or hygienic purposes.

bathroom attendant; cleans out baths, in hydre and hotels; removes soiled towels; waits on bathers, if required.

cooling room attendant; *turkish bath attendant*; waits on bathers in cooling rooms of *turkish bathing establishment*; assists them in undressing and dressing; takes charge of clothes; prepares and serves light refreshments; cleans premises and assists in maintaining fire.

manager (spa baths); manages baths where water from mineral springs is used; supervises staff; orders food and other commodities required; controls expenditures; deals with any complaints.

matron (baths); superintends domestic and cleaning arrangements of public baths, especially when used by women.

money taker, office attendant; receives money at ticket office and issues a pass or ticket for personal admission; also issues towels and cosmetics.

owner or proprietor (bathing machine); owns and lets bathing machines at fixed rates; often also does work of bathing machine attendant (q.v.).

private bath attendant; cleans out bath after each bath, and removes soiled towels, &c.

resident working attendant; dusts and cleans premises of bath or washhouse; also attends on bathers.

champooer (turkish bath); rubs, soaps and douches bathers after they have perspired sufficiently; usually has two assistants, and rubs medicated stimulants as directed or prescribed; usually stokes fire from time to time.

superintendent (baths); *back keeper*; in charge of public baths; supervises staff, makes frequent inspections of bath cubicles, heating furnaces to ensure that plant is in order and that work is being done efficiently; deals with correspondence and complaints; keeps accounts; usually a practical engineer acting as an advisory capacity as such; reports to Baths Committee.

superintendent (public wash-house); responsible for conduct of public wash-houses, usually in conjunction with public baths; duties as for superintendent (baths) (q.v.); sometimes a qualified laundry engineer (314).

turkish bath attendant, *see* cooling room attendant.

wash house man, wash house woman; allocates stalls, issues tickets and generally assists superintendent of public wash house in running of laundry machinery.

920.—HAIR DRESSERS, MANICURISTS, CHIROPODIST.

artist in hair, *see* hairdresser.

barber; a hairdresser's assistant (q.v.) in a man's hairdressing establishment.

barber's boy, *see* lacky boy.

beauty specialist, beauty doctor; *cosmetologist specialist*; manages face, neck and arms, prescribes face creams, washes, powders, and colorings; manicures hands and feet; removes superfluous hair by electrolysis and other means; removes warts, moles, birth marks, warts, by means of electric and other treatments.

chiropodist; *corn cutter*; cuts, trims or corrects toe nails, corns and callous growths of the feet; treats and corrects malformations of the toes and general defects of the feet.

coiffure, *see* hairdresser.

complexion specialist, *see* beauty specialist.

corn cutter, *see* chiropodist.

dye, *see* tint.

general hand, *see* hairdresser's assistant.

gent's hand, *see* hairdresser's assistant.

hairdresser; *artist in hair*, *coiffure*; working proprietor of hairdressing salon; for operations *see* hairdresser's assistant.

hairdresser's assistant; *gent's* or *ladies' hand*, *general hand*; cuts, champoos, singles, waves, arranges, dyes, and bleaches human hair; shaves beard; manages sale; sometimes gives electrical treatment to promote growth of hair and health of scalp; sometimes also does hairdressing work (423).

ladies' hand, *see* hairdresser's assistant.

lather boy; *barber's boy*; assists hairdresser or barber, lathering face before shaving, removing soap, sponging and powdering after shaving, also assists in cleaning apparatus and sweeping floor.

manicurist; cuts, trims, files, cleans, and polishes finger nails, removing cuticle and underlying general care of the nails; removes warts, etc.

champooer; an assistant in large hairdressing establishment who specialises in shampooing, i.e. washing the hair with soap and hot water or spirit.

tint; *dye*; washes and applies tint or colour to human hair on the head or in the manufacture of wigs.

trichologist; a hairdresser (q.v.) who is qualified to advise as to treatment of hair, both from medical and hairdressing considerations.

WATER; waves hair on human head by various means, e.g. (i) water waving, i.e. wetting hair and pressing it into shape by hand or by using a waving iron; (ii) manual waving, by using hair irons or wavers; (iii) permanent waving, by rolling strands of hair over an inserting the rolls into tubes, heating the tubes electrically and thus maintaining the wavy form induced by rolling.

921.—CARETAKERS AND OFFICE KEEPERS.

armoury keeper; (i) in charge of arms, armour, etc. in armoury of a large private establishment or such as large army, etc., cleaned and oiled; (ii) may also be in charge of rifles, etc., in drill hall, rifle club or gymnasium.

barback warden; has charge of all stores belonging to barrack buildings as apart from those held on indent by the units occupying the barracks; is responsible for the care of barracks when empty.

caretaker; (i) (assembly rooms, drill hall, lecture hall, museum, office, public rooms, shrine hall, etc., school, college, etc.); *custodian*, *janitor*, responsible for building and contents; keeps clean or supervises cleaning staff; tends fire or heating apparatus in winter; acts as deputy secretary for meetings, etc.; generally lives on premises; (ii) (club, institute, dance hall, etc.); as above, but may also cater for refreshments on occasion; (iii) (domestic); *house warden*; takes charge of and keeps clean a private house, bungalow, houseboat, etc., in absence of occupier; usually lives on premises; (iv) (church, chapel, mission hall, etc.); is responsible for care and cleanliness of church, etc., directs women cleaners; acts as vergor (Church of England); (v) (dwelling, flat, house, alone, etc.); *steward*; in resident charge of blocks of dwellings, flats, etc.; keeps keys of vacant flats; is responsible for cleanliness of hall, staircases, etc.; keeps boiler stoked, where there is central heating; (vi) (junior); *housekeeper*, *office keeper*; in resident charge of block of offices; keeps keys of vacant offices; directs staff of cleaners; usually engaged and pays them; keeps boiler stoked, where there is central heating; sometimes provides hot lunches and teas for office staff; (vii) (shooting box); in resident charge of shooting box; during season usually acts as servant to owner.

curator, *see* caretaker, usually of public buildings.

custodian (castle), *see* warden.

garage warden; a caretaker (q.v.) of omnibus company's garage.

housekeeper, *see* caretaker, if in resident charge of a block of offices or other similar buildings; *cf.* housekeeper (369).

houseminder, *see* caretaker (domestic).

janitor, *see* caretaker; may also act as doorkeeper (317) (q.v.).

keeper; (i) *see* caretaker; (ii) *see* warden.

lobby keeper; a caretaker (q.v.) in charge of lobby of large block of residential flats or mansions.

mansions superintendent; in charge of porterage and lift staff in large block of residential flats; engages and discharges staff; keeps keys of vacant apartments, etc.; patrols building to ensure that porters are doing work satisfactorily; deals with complaints as to cleanliness of stairs, corridors, working of lifts or any matters relating to duties of porters.

mortuary keeper; responsible for care and cleanliness of a mortuary; usually present at post-mortem examinations; may wash and prepare body for burial.

news room keeper; a caretaker (q.v.) of a news room not forming part of premises of public library; cleans premises, tends fire and heating apparatus, arranges journals for readers of standards and tables; preserves order in reading room.

office keeper, *see* caretaker (office).

steward, *see* caretaker (flat).

warden, warden; *custodian*, *keeper*; is a resident or caretaker (q.v.) in charge of old castle or other place of interest; acts as guide to visitors.

922.—CHARWOMEN, OFFICE CLEANERS.

charwoman, char, char lady, cleaner; *janney woman*; a daily non-resident domestic worker who renders casual assistance in a household, office or elsewhere (scrubbing, cleaning, etc.).

cleaner (bank, hall, library, museum, office, school, etc.); sweeps, cleans and dusts premises of bank, office, etc.; polishes brass work, etc.; makes fire if necessary; usually part-time worker, working night and morning.

cleaner, brass (office); cleans and polishes brass or copper fittings in offices.

cleaner, wall office cabinet (G.P.O.); cleans, with wet brush, windows, walls and floor of telephone call boxes.

cleaner, church; assists church caretaker (321) (q.v.) in cleaning of church by scrubbing floors, darning, etc.

cleaner, house; a charwoman (q.v.) who scrubs or cleans the interior of houses, usually on charge of tenancy.

cleaner, ship's; a charwoman (q.v.) who does rough cleaning work in cabins and saloons of passenger vessels in dock.

cleaner, step; scrubs, washes and cleans steps; may also clean windows.

janney woman, *see* charwoman.

scrubber; does rough hard cleaning of premises, scrubbing off dirt, grease, etc., from doors and steps; *cf.* charwoman.

923.—CARPET BEATERS, VACUUM CLEANERS, WINDOW CLEANERS.

beater; (i) removes dust from carpets, hangings, etc., by beating by hand with a stick; (ii) feeds carpet into beating or cleaning machine.

cleaner, carpet; cleans carpets by removing stains, marks, grease, etc., when necessary, using sponge, soap and water or cloth saturated with spirit, applied by hand.

cleaner, vacuum; holds nozzle of vacuum cleaning apparatus in hand and runs it over carpet, curtain, upholstery, etc., causing the removal of dust by suction.

cleaner, window; rubs window pane with damp chamois leather or with cloth wrung out of dilute methylated spirit or chalk mixture; polishes with soft dry cloth.

finder, carpet; finds carpets after they have been cleaned or beaten, and ties them ready for dispatch.

opener, carpet; unfolds carpets received at depot for beating and cleaning purposes; adds identification marks and notes general condition.

orter, carpet; sorts carpets as to cleaning process; after cleaning reverse and packs for dispatch.

924.—CHIMNEY SWEEPS.

sweep, chimney sweep; *chimney cleaner*, *the cleaner*; sweeps chimney with a circular brush which is pushed to the top of the chimney by means of a series of wooden rods screwed or jointed together; in Scotland pushes brush down from top of chimney; takes away fallen soot in bags.

925.—UNDERTAKERS.

bearer, assists in carrying body to grave, carrying coffin from premises to hearse and from hearse to grave.

blackman, *see* undertaker; (Lancashire term).

embalmer, injects disinfecting chemicals into the blood vessels to preserve a dead body; generally prepares for transport or burial.

funeral director, funeral furnisher, *see* undertaker.

superintendent, *see* funeral director, (Scottish term).

undertaker, *blackman* (Lancashire), *funeral director, funeral furnisher, superintendent* (Scottish); superintends arrangements and is responsible for conduct of a funeral; estimates cost, measures body for coffin; sometimes prepares the body for burial.

undertaker's shop assistant, attends to callers in undertaker's shop; sells artificial flower wreaths, etc.; assists in polishing coffins; goes with undertaker's van to assist in carrying coffin into house; may also carry out duties of *bearer* (S.V.); *watcher*; watches by coffin during night preceding funeral; required by Jewish ritual.

926.—OTHERS IN PERSONAL SERVICE.

ambulance corps worker, is an ambulance man (S.V.) who belongs to a recognized First Aid Corps, *cf.* S. St. John.

ambulance man, renders first aid to the injured pending medical attention, applies restoratives and artificial respiration when necessary; binds up wounds and fractures.

assistant (railway ordering), *see* attendant, buffet.

assistant manageress (railway catering), a counter hand (S.V.) who is second in charge of railway refreshment room. In absence of manageress (S.V.), acts in her place, superintending staff, keeping stores and ordering supplies.

attendant, aronde, *see* aronde *beadle*, *aronde* policeman, *aronde* porter, opens gates in morning; police *aronde* during day to see that regulations are not infringed; prevents admission of undesirable persons; answers enquiries and directs strangers; looks gates in evening.

attendant, art school, waits upon teachers, pupils, etc., at a school of art, taking messages, carrying articles.

attendant, bath, in charge of a bath or hut, where quarrymen sleep, or where unemancipated male farm or estate servants are housed; does simple domestic work; prepares meals.

attendant (buffet, café, saloon, etc.), assistant (railway ordering), attends to and serves customers with refreshments; *cf.* waiter (918).

attendant (cab, cab rank or cabman's shelter), answers calls for cabs, taxis, etc., at cab stand; where shelter exists on rank, supplies cooked food to drivers; keeps cab shelters clean.

attendant, chair, *see* attendant, *mat* letter; sets out chairs, etc., in parks, on beaches, etc., and collects the charge made for temporary use.

attendant, cloak room (hotels, dance halls, etc.), receives and is responsible for personal effects, hats, wraps, umbrellas, etc., left by patrons in cloak room; issues tickets and collects fees.

attendant, coffee hall, serves customers and renders general assistance at a coffee-stall, *cf.* waiting up.

attendant, dining car, *conductor dining car, conductor* (railway), sets and waits at tables in dining cars on railways.

attendant, dining hall, dining room, *cf.* dining hall maid; sets and clears tables, and waits in dining hall; also assists in keeping hall clean.

attendant, dispensary (dentist's or doctor's surgery), a waiting room attendant (S.V.) employed in a dispensary; examines prescriptions prepared weekly by patients to ensure that they come within dispensary regulations; delivers medicine from dispenser; keeps surgery and apparatus clean.

attendant, dormitory, sweeps, cleans, and keeps tidy the dormitories of a college, school or other institution; makes beds; sometimes prepares weekly laundry lists.

attendant, female (P.O. Medical Department), gives general assistance to Medical

Officer of P.O. Medical Department, renders first aid, treats minor cases, etc.

attendant, invalid's, attends generally to the personal wants of an invalid, serving food, washing bath chair, etc.

attendant, ladies' waiting room, *see* lavatory attendant.

attendant (lavatory, lavrine), ladies' waiting room attendant; is responsible for care and cleanliness of lavatories, etc., supplies clean towels; in public lavatories, collects fees, when payable.

attendant, mess room; (1) (workpeople's messroom) prepares and cooks meals; warms up diner's own food; waits on diners; cleans canteen or messroom; washes up; (2) (army messroom) *see* waiter (918).

attendant, mid-day (special school), looks after mentally or physically defective children during mid-day interval in a school.

attendant, mineral spring, serves and waits on customers in pump rooms at spas.

attendant, school playground, looks after children in a school playground; maintains discipline; sometimes conducts drill and organizes games.

attendant, seat, *see* attendant, chair.

attendant, waiting room, attends to needs of persons in a waiting room; makes appointments; answers telephone; makes persons in and out of waiting room; sometimes also does simple clerical work.

attendant, workhouse (female inmates), assists in dressing, washing and keeping inmate's ward of a workhouse; serves meals; acts up food if necessary and acts generally as personal attendant in any way required.

bar assistant or attendant (temperance hall), serves at the bar of a temperance hall; duties as for barman (911).

basket man, or boy (railway); serves luncheon and tea baskets to railway passengers; also collects and backs in heads (hospital, etc.); discharges term in boys' hospitals; duties now performed by local porter (917) (S.V.).

bedder, *see* bed maker (university college).

bed maker; (1) (lodging house) makes beds, cleans and tidies bedrooms or children's beds; (2) (university college) *see* bedder; (3) makes beds and does all lighter (cleaning) duties in all rooms on a staircase serviced by agent (Oxford) or gyp (Cambridge) (S.V.); makes beds and puts in order the bedrooms of residents (hotels or students).

boot black, *see* black; cleans and polishes boots, etc. at a small stand near a station or in a busy thoroughfare.

brewer (coffee tavern), brews or prepares coffee for drinking at stall or tavern; *cf.* brigade boy; a member of brigade of boys organized to supply casual domestic service; lives in hostel.

carer, *see* shelter inspector; visits and inspects almshouse shelters, maintained or owned by special society; reports regularly to management committee on each shelter, as to state of repair, cost of maintenance, staff, food supply, etc.

calendar (job drying and dry cleaning), dries and iron-curest, blinks, etc., in one operation by passing through calendaring machine; *cf.* calendar hand (915).

collier, collier-up, *see* knocker-up.

carver, serves most into portions for serving in restaurants; in lodging and boarding houses is generally also responsible for supervision of preparation of customer's assistant; assists a caterer (911) (S.V.) in one branch or another of his business; usually *see* waiter (918) (S.V.).

chair ticket inspector, inspects tickets issued as receipt for money paid for the temporary use of chairs in park, on beach, etc.

chip potato cleaner, washes potatoes by means of scrubbing brush or broom in water in a pall or bucket; peels by hand with a knife; usually also cleans into chips with a knife by hand or by machine powered by a lever; may also clean fries, tables, etc. of fat saloon or kitchen.

cleanser, *see* guide.

clothes cleaner, garment cleaner; general terms for workers engaged in dry or wet cleaning clothes; *see* dry cleaner (929), wet cleaner (915).

clothes presser, garment presser; irons and presses coats and other heavy goods after cleaning or drying, by means of hot iron and damp cloth or by use of steam press *cf.* Hoffman press.

chrome glosser (S.V.) and *chrome's*; cleans chrome carcases, covers, etc., by dipping in a special glazing solution, and then ironing by hand or machine.

conductor (Pullman car), in charge of Pullman Co.'s saloon railway car, collects fares for use of the car, superintends the serving of light refreshments and receives payment therefor.

conductor (railway dining car), dining car conductor, *see* attendant, dining car.

cookery centre assistant, cleans premises of a school of cookery; washes dishes and utensils used in demonstrations and for diners served to students; prepares vegetables; serves and sometimes cooks dinners provided from canteen for school children.

cook inspector, inspects the work of cooks in large restaurants or kitchens of caterers; examines finished dishes before they are sent out; reports to management.

cook's boy, performs various minor duties in kitchen of hotel, restaurant or large private establishment, such as clearing fish, plucking and drawing poultry, preparing and cutting up vegetables for soup, boiling and measuring ingredients; differs from cook's apprentice (900) (S.V.) in that there is no undertaking to give instruction in cooking.

counter hand, sells light refreshments, and washes, alcoholic drinks, the coffee, etc. to customers at counter of bar or buffet; may be required to clean counters and assist with washing up; may also perform duties of still room hand (900) (S.V.).

courier (tourist agent), travels with tourists at home or abroad; shows way and answers inquiries; sees to clearing of baggage, secures hotel accommodation, acts as guide and interpreter, suggests likely places of interest, and generally sees to the comfort of tourists.

curbide nurse, *see* attendant; recruits children at orphanage; cleans and dresses them; serves food, feeds by hand if necessary; keeps premises clean; treats children if necessary for minor ailments.

day boy, odd boy; a non-resident domestic servant, doing odd household jobs, running errands, etc.

dining hall maid, *see* attendant, dining hall.

dispatch man (caterer's); receives orders and sends meals out to be consumed at the premises.

dry cleaner, *French cleaner*; soaks articles, usually wearing apparel, in spirits (naptha, benzoline or petroleum), places them in rotary washing machine also containing spirit, then transfers them to a centrifugal drying machine to extract spirit.

dye, dyer and cleaner, re-dyes articles of clothing, upholstery, etc., by dipping in vats of colour in solution, mixes colours and regulates temperature of the dye vats, may first clean, if necessary, *see* wet cleaner (915).

estate constable, guards an estate, patrols the grounds, sees to security of gate, locks, etc.

fletcher; general term for workers in finishing department of job drying and dry cleaning works; *see* clothes presser, calendarer, glosser, cylinderer (918), ironer, ironer and finisher, gaffer (918), presser.

fire lighter; cleans fireplaces, lays, lights and maintains fires in large establishments; carries coal.

fish fryer, fries fish and chip potatoes in wire baskets dipped in butter and in boiling fat in hooks or pans; cleans frying range.

floor polisher, cleans and polishes floors of wood, mosaic, linoleum, etc., by rubbing with floor polish and a cloth mop manipulated by hand.

French cleaner, *see* dry cleaner.

gillie, gillie, a personal attendant or outdoor valet who accompanies his employer or his friends on a shooting, shooting or deer stalking expeditions; assists in carrying

fishery tackle, tackle, bait, guns, lures, baits, etc.; keeps poachers from fishing or shooting poachers.

glove cleaner; a dry cleaner (q.v.) who removes dirt from gloves; may also clean by wet method, see wet cleaner (915).

glove stretcher; cleans and stretches gloves with glove stretchers, in finishing department after drying or cleaning.

guide for blind children; acts as guide to a horse for blind children, or conducts blind children from their homes to school guide; cleaners; (1) conducts visitors, parties of school children, etc. round angaria, galleries, museum, and other places of interest, giving general and historical information, and sometimes short explanatory lectures; (2) (mountain), leads individuals or parties to summits of or across mountains by recognized paths; warns them of danger; recommends necessary precautions; points out features of interest, gives information on history, legends, etc. of the district; (3) (tourist agency) is engaged by tourist agency to conduct travellers round towns and other places of interest, pointing out and describing the principal features.

gyp; a male personal servant to resident members of a college at Cambridge University; works for rooms on a "staircase"; assists bedmaker (q.v.) in all better domestic duties; carries water and coals; lights fires; serves meals from kitchen; may also wait at dinner in hall; cf. *serv.*

ham and beef cutter; slices ham and beef in ham and beef shop, restaurant or dining room, using carving knife or slicing machine.

handy man; odd man; does odd jobs about a house, such as small repairs to locks and bells, cleaning boots, carrying coals, etc.

helper, dining centre; lays and clears tables, waits, clears and generally assists at a dining centre.

hospital orderly, hospital porter; attends at entrance of hospital or infirmary to direct and assist patients and visitors; makes up furnaces, fetches stores by wheel or trolley, packs and unpacks cases; hands patients to and from operating theatre, etc.

hostel assistant; keeps hostel clean; waits on the boarders.

hotel forist; responsible for the purchase, care and arrangement of all floral decorations in a hotel.

hotel yardman; does unskilled outdoor work at a hotel, watering horses, sweeping yard, etc.

hut keeper, *as for attendant bothy.*

infirmary porter, *as for hospital orderly.*

inspector (dining car); *see steward (dining car).*

ironer, ironer and finisher, ironer and presser (dyeing and cleaning); presser; iron and presses (or finishes) articles after they have been cleaned or dyed, with flat iron (generally heated by gas or electricity) or on American patent steam pressing machine, called *finishing press*.

jobbing butler; a non-resident manservant, who acts as butler for special occasions in private families where no regular butler is kept; cf. *butler* (900).

knife cleaner; cleans steel of knives with emery powder on knife board or in knife machine; usually employed in restaurants, etc.; occasional occupational term.

knocker-up; *caller, call-up, night caller*; wakes up workpeople in their homes daily by rapping or knocking at their windows at a fixed time each working day.

layer-out of the dead; washes, lays-out, prepares and dresses body for burial.

linen checker; checks linen of an institution or its tenants from laundry, and on issue for use; and sends soiled linen to laundry.

linkman; shows guests or pilgrims at night to and from carriages or motors; calls vehicles by number; (term practically obsolete).

lobbyman (gas works); a gas lobby, the quarters used by workmen between shifts or working periods; washes faces, boils, wash bodies, cleans legs, etc.

manager, managress (club); in general charge of the business arrangements of a club; appoints and controls staff, orders supplies, sees to catering, etc.

manageress (railway catering); manages railway refreshment room; *see railway refreshment room manager* (914).

maniple, college maniple; a steward or purveyor of food at a university college; *scholastic term.*

marshal (university); one of two officials at a university; (1) messenger to Vice-Chancellor; (2) chief of porter's attendants ("bull-boys").

manolo tiler; stands at door of manor's lodge and guards against entrance of unauthorized persons.

matron of nurses (G.P.O.); attends to the health and welfare of boy and girl through messengers at a large post office; responsible for discipline; supervises cooking of meals in messroom.

mess boy; assists generally in mess room, cleans and prepares tables for meals, waits, clears away, washes up, etc.

mess man (army); is employed by mess officer (911) (q.v.) to assist in mess room, cleaning, preparing for meals, waiting, etc.

night caller, *see knocker-up.*

odd boy, *see day boy.*

odd man, *see handy man.*

operating theatre assistant; steriliser (q.v.); cleans surgical instruments and sterilises them in bath of lysol, etc.; attends on anaesthetist and surgeon, supplying with instruments, cotton wool, cloths; work usually done by qualified hospital nurse (944).

oyster servant, outdoor assistant; a general term which includes servants whose main duties are performed out of doors, e.g., gardeners, (0185) stable boy, (725) (q.v.).

oyster opener; opens oysters, usually by forcing shells apart with a strong knife; sometimes serves them at oyster bar.

panman; cleans by washing, scrubbing and polishing, pans and other kitchen utensils in the kitchen of a restaurant, etc.

plate cleaner; washes and polishes silver plate, electropolishes in plate room of a restaurant, etc.

plateman (railway catering); *see plate washer.*

plate polisher; polishes with a dry cloth plates dried in rack or in drying chamber (large restaurants and establishments only).

plate washer; plateman; washes and dries plates, dishes, etc., in restaurants, etc.

police matron; has charge of women prisoners at a police station, and in police court is responsible for the searching of women and girls charged at the station.

polisher (boots, etc.); cleans and polishes, by rubbing with a special metal polish, brass and other metal work in a hotel, etc.

preparer; takes to pieces or unpacks garments or upholstery before dyeing and cleaning.

presser, *see ironer.*

private detective, private enquiry agent; an unofficial detective engaged to make personal enquiries as to conduct, etc. (especially for divorce cases), and to watch suspected persons.

scout (college); a personal servant to college residents at Oxford University; works for a set of rooms or "staircase"; carries water and coals; helps bedmaker (q.v.) make beds and cleans rooms; serves meals from kitchen; may also wait at dinner in hall; cf. *gyp*.

southemman; fills coal scuttles in large hotels and clubs; attends to fire, etc.

stair letter, *see attendance, chair.*

shoeblack, *see bootblack.*

smoke-room assistant; serves clients in the smoke-room of an hotel or inn with tobacco, drink, and light refreshments.

sorter; sorts articles received at depot for dyeing or cleaning; marks and labels them for respective processes.

soup kitchen worker; renders paid assistance in some capacity or other in a soup kitchen (cook, scullery-maid, etc.).

sponter; removes with suitable chemicals, stains, stains upon articles as are left after spray or dry cleaning process.

steamer; brushes, on steam bed, articles of clothing after dyeing and cleaning.

steriliser (hospital), *see operating theatre assistant.*

steward, stewardess (club, messroom, working men's institute, etc.); usually in resident charge of club house, institute,

etc.; keeps premises clean; provides, prepares and serves food, drink and tobacco; collects fees for use of billiard tables, green fees, etc.

steward (dining car); inspector; regulates food, supervises preparation and service of meals in railway dining car; controls water and kitchen staff; examines dining cars to ensure cleanliness; on some railways travels with dining car, on others inspects cars before they leave terminals; duties are wholly supervisory.

straw hat cleaner; washes hat, bleaches it with bog (strong soda), dries it, and replaces hat band and lining.

supervisor (hand homeworkers); provides material for home workers, supervises work done and collects (sometimes makes) finished articles.

supervisor (dining centre); exercises general supervision at a dining centre; controls staff, sees that meals are properly prepared and served, etc.

surgery boy, surgery girl, surgery maid, *see surgery assistant.*

table decorator; arranges ornaments, flowers, shaded lights and other decorations on dining tables in hotels, restaurants, etc., on special occasions for weddings, dances, etc., at private houses.

tea-maid; commands silence and announces the guests at public banquets.

tea (hotels, etc.); solicits custom for hotels, etc., at railway stations, steamboats, wharves, looks after luggage, and conducts to hotel conveyance, etc.

trolley (railway catering); sells light refreshments, sweets, fruit, etc., from a trolley to passengers in a train at railway station.

washer-up, *as for scullery maid* (905).

wash-house man, wash-house woman (hotels), *as for wash-house man* (915).

ORDER XXVII—CLERKS AND DRAUGHTSMEN (NOT CIVIL SERVICE OR LOCAL AUTHORITY), TYPISTS.

Sub-Order 1.—Clerks and Draughtsmen (not Civil Service or Local Authority), Typists.

930.—COMPANY SECRETARIES AND REGISTRARS.

Chartered secretary; a Fellow or an Associate of the Chartered Institute of Secretaries (F.C.I.S. or A.C.I.S.) who is holding or has held office as a secretary, g.v. of a joint stock company or other public body.

registrar (assurance, bank, dock, insurance, joint stock, or any other company); is responsible for keeping up-to-date and accurate registers required under the Companies Registration Act, such as the register of members (comprising names, addresses, occupations, details of stocks or shares held by each member, together with amounts paid or still owing), registers of mortgages, registers of directors and managers; prepares, or causes to be prepared, periodical statements statutorily required by the Registrar-General, and conducts correspondence with the Registrar-General, and sends correspondence with shareholders, etc., on legal and technical matters connected with sale or transfer of shares; is usually assisted by an expert staff.

secretary (assurance, bank, colliery, dock, harbour, insurance, joint stock or any other company); is in charge of secretarial office staff of a company, and transmits instructions from directors to heads of departments; keeps records of meetings of directors and is responsible for keeping books of company in order; convenes meetings of directors and records decisions made in minute books; receives correspondence of company, and is responsible for all out-going correspondence; may be authorised to

sign cheques on behalf of directorate; in firms where there is no separate accountant (931) g.v., is responsible for drawing up balance sheet and annual report at end of financial year.

secretary - accountant; in smaller joint stock companies, etc., combines the duties of secretary and accountant (938) g.v.

931.—HEADS AND MANAGERS OF COMMERCIAL OFFICE DEPARTMENTS.

accountant, chief accountant, see head bookkeeper; cf. accountant (930).

chief book-keeper, see head book-keeper.

chief cashier; head cashier; is responsible for receiving and signing cash, and for payments into and cheques drawn on bank account; receives cheques and cash daily from counting house and keeps cash book and other accounts required by accountant g.v. pays all salaries and commission to members of staff and is responsible for details in connection with National Health and Unemployment Insurance.

chief clerk, see head clerk.

chief costs clerk; head of costing department; in consultation with manager, buyer (772), salesman (776) g.v., etc., collects costs of materials, processes, machinery, power, etc., either singly or in varying quantities, to enable manager or estimating clerk (932) g.v. to quote prices or estimates to customers, to estimate profits, or to come to decisions as to installation of new machinery or introduction of new processes; supervises and is responsible for work of cost clerks (934) g.v.

chief rating clerk (not local authority), in water board, etc., office, directs the work of clerks (939) g.v. making out rating schedules; sometimes lays down schedules of rateable values, according to reports of surveyors, particulars of rateables, etc., answers queries and decides debatable points; may, under direction of secretary (930) g.v., deal with important correspondence from public and their legal representatives, contacts or allows applications for rateable reductions, etc.; makes out estimates of yield of rates for board, etc.; prepares list of ratepayers and amounts due for treasurer.

counting house manager; has charge of entire counting house staff; is responsible, through ledger clerks (936) g.v., for keeping ledgers in which are entered all accounts of goods bought or sold by firm; sanctions all credits; renders accounts for all goods sold and is responsible for collection of all such accounts; prepares daily balance of cash for cashier, and deals with correspondence in connection with accounts.

head book-keeper; accountant, chief accountant, chief book-keeper; has charge of staff of book-keepers (939) g.v. who undertake all necessary work under his instructions; obtains details of all monetary transactions from ledger clerks and from cashier (939) g.v.; prepares all financial statements for production of balance sheet by firm of chartered accountants or may compile balance sheet himself; calculates commission due to salesman (775) g.v. and passes statement of these to cashier for payment.

head cashier, see chief cashier.

head clerk; chief clerk; in small firms, frequently combines duties of head book-keeper and chief cashier g.v.; also acts as deputy to manager or proprietor, answering correspondence in their name, interviewing travellers and callers, etc.; in large businesses, takes charge of a section of the secretarial or account work of a department; supervises work of

clerks (930) g.v. and is responsible to secretary (930) g.v. or manager of department or firm.

head of costing department, see chief costs clerk.

head of freight department; prepares schedules of rates for the carriage of goods freights as to the categories to which certain border-line classes of goods belong, makes estimates, quotes special rates, makes contracts with railway, shipping, or other firms for transport of goods; negotiates with custom authorities of own and foreign countries; answers correspondence with regard to lost or damaged freight; supervises and is responsible for work of clerks (930) g.v. in department.

head of passenger department; is responsible for the issuing of tickets to passengers by rail, steamer, etc., and for the proper direction of passengers and luggage over agreed route, negotiates with other countries for the receipts, assistance and guidance of travellers or emigrants, frequently obtains accommodation and plans itineraries for journeys, quotes rates and makes estimates for the cost of journeys or tours; conducts important correspondence with intending travellers, deals with complaints, etc.; supervises and is responsible for work of clerks (930) g.v. in his department.

managers, mail order department; supervises staff of girls and/or women who open correspondence containing orders, receives same and issues, postal orders, etc., enclosed in letters, and sees that entries are duly made in receipt and cash books; if necessary, dictates replies to letters or indicates type of answer to be sent; sometimes supervises packing of parcels are small; orders fresh stocks of goods from storeroom or returns surplus goods to storeroom; reports to manager of business managing clerk (in solicitor's office), conducts in chambers, under the little supervision, affairs of employer's practice or of any department thereof; deals with barrister's clerks and instructs counsel; interviews and advises clients in the name of the firm; attends summonses in chambers; generally supervises the work of office staff and conducts legal work on behalf of his principals; is often himself a qualified solicitor, and, as such, may conduct cases in the Courts.

932.—DRAUGHTSMEN.

cartographer (not Admiralty); a surveyor's draughtsman g.v. in a surveyor's office who draws maps and plans from measurements, levelling, angles and distances supplied by surveyors; works out contours, etc., and draws them in; cf. geographical draughtsman (930).

designer, carriage body; coach body designer, motor body designer; a draughtsman g.v. who prepares designs for new styles of carriages, motor or motor bodies; may prepare special designs for individual customers.

designer, chief; in charge of design section engaged on research work, principally in connection with new designs or development work.

designer (engineering); a senior draughtsman g.v. who prepares original sketches of machinery and works of construction from calculations of dimensions, according to stresses and strains to be sustained by each part, strength of materials, principles of engineering design, cost of construction, etc.

designer, lace, see draughtsman, lace draughtsman, architect's; architectural draughtsman; as for draughtsman (engineering and building) elaborates plan, elevation and section of buildings and their details, under supervision of architect.

draughtsman, assistant chief; acts as understudy to chief draughtsman g.v. and is responsible in his absence for the general management of drawing office.

draughtsman (bricks and tiles); a draughtsman g.v. who designs bricks and tiles, drawing the designs in plan, elevation and section for use of modellers (118) and mould maker (118), working under the direction of head setter-out (118) g.v.

draughtsman, chief; a draughtsman g.v. who is responsible for the management of drawing office and work performed therein; may deal with correspondence relating to department and sometimes engages or discharges his assistants; is generally able to design mechanism and structures, and in small firms, may act as designer g.v.

draughtsman (coal mine); a surveyor's draughtsman g.v. who prepares plans of mine workings from measurements supplied by mine surveyors (940) g.v.

draughtsman (engineering and building), engineer's draughtsman; draws orthographic projections and sections in plan and elevation, to scale, of a piece of mechanism or structure from a rough sketch and details as to dimensions, material, etc., supplied by senior draughtsman or designer g.v.; elaborates smaller details to actual size or scale on detailed drawings which illustrate the design, and from these, constructs and relationship for the use of pattern shop, smithy, machine shop, joinery shop, etc.; generally is able to design minor details under instruction of senior draughtsman or head of drawing office; sometimes, specifically designated according to kind of mechanism or structure in which he or she specialises, e.g. aeronautical draughtsman, railway draughtsman, textile (machine) draughtsman.

draughtsman (glass); a draughtsman g.v. who constructs designs, specifically full size for use of other stained glass window workers.

draughtsman (ironfoundry); a draughtsman (engineering and building) g.v. who prepares full size drawings of patterns, from which metal parts are to be cast, in drawing office of ironfoundry for use of pattern maker draughtsman g.v. taken into account in making drawing, the expansion factor of metal to be used, the properties of sand of which mould is to be made, etc.

draughtsman, lace; lace designer; elaborates new designs for laces and transfers design on to a chart containing numbered lines to represent all threads of weaving machine, from which card puncher (386) g.v. punches card.

draughtsman, leading, see section leader.

draughtsman, naval; nautical draughtsman, see draughtsman, ship.

draughtsman, plan; a draughtsman g.v. who draws, in plan, location of buildings, etc., for attachment to legal documents, etc.; work usually done by senior draughtsman.

draughtsman (pottery); designs new patterns for decoration of earthenware, china, etc., and draws and colours in plan, elevation and perspective, designs supplied by himself; work usually performed by designer (108) g.v.

draughtsman, ship; naval draughtsman, naval draughtsman; as for draughtsman (engineering and building) working on detailed drawings for shipbuilding; generally has considerable responsibility in design of ship under general direction of ship designer.

draughtsman, surveyor's; draws a plan of an estate, drainage system, housing scheme, etc., showing roads, boundaries, contours, etc., from levels, angles and distances furnished by surveyor and set down in level book; generally assists surveyor in

taking levels; otherwise, as for draughtsmen (engineering and building).
draughtsman, tile; a draughtsman (pottery) *q.v.* who specialises in designing new patterns for tiles, and for tiled floors or walls; draws out and colours pattern for each tile to full size.

putter-on (block roller cutting), receives design for wall paper from designer; enlarges it to full size for printing; transfers it by tracing on to sheet which he attaches to block or roller, ready for print order (257) *q.v.*; prepares separate roller and tracings for each colour in the design.

sutton leader; leading draughtsman; a draughtsman *q.v.* in charge of a section, i.e. a squad or group of squads of draughtsmen.

sketcher (fume, sewing machines, etc.), a tracer (*q.v.*) making tracings of component parts of fume, machine, etc.

tracer; prepares tracings on transparent paper for cloth from given drawings originated in the drawing office by draughtsman, designer, etc. *q.v.* sometimes specifically designated, e.g. design tracer.

933.—COSTING AND ESTIMATING CLERKS.

automatic arranger and estimator (gas company); visits customers' or prospective customers' houses to ascertain what is required by way of alteration or new installation; notes particulars and prepares estimates of material required for use of inspector.

cost accountant, costing accountant, costing clerk, costs clerk; obtains and records rates of wages, etc., of the workmen, clerks, managers employed in the concern, rents, rates and taxes of buildings, cost of heating, lighting, fire, cleaning, repairing, painting, etc.; prices of materials used in manufacture, rate of manufacture, amount of sales, wastage, breakage, depreciation, cost of transport, insurance, etc., so that manager of costing department (361) *q.v.* may have guidance in framing estimates and also may calculate the proportions of above costs in various relations, i.e. to show the absolute cost, to a unit of manufacture or unit, compare cost of units at one period with another period, or to compare the absolute cost of one process with another process.

cost keeper (gas); keeps detailed records of general costs, or of costs of any particular department of gas-works; gathers information from work sheets giving particulars of materials used on job, and from time sheets giving time spent on job, and adds percentages to cover establishment or other overhead charges.

estimating clerk; a costs clerk *q.v.* who works out quantities and prices of materials from current quotation to assist estimator in preparation of tender for contract.

material estimator; visits customers' houses and judges quantity and weight of goods; calculates the amount of haulage required to be done in terms of volume, mileage, labour, traction, etc.; submits estimate to customer for approval.

936.—OTHER CLERKS.

accountant, see book-keeper.

accountant's clerk, accountant-clerk; (i) general terms covering any clerk *q.v.* employed by firm of chartered accountants, including audit clerk *q.v.*; (ii) assists principal in secretarial duties to various firms, keeps transfer and share register books, issues dividend warrants and share certificates; keeps ledgers and account books; orders goods

and, when necessary, arranges for their despatch to companies for whom his employers are acting; checks invoices for goods supplied and for payment of accounts; *q.v.* audit clerk, accounts clerk, see ledger clerk, accounts clerk (railway); a railway clerk *q.v.* in the accountants' section at the headquarters or divisional office of a railway who receives from individual railway stations, etc., statements of the number of tickets of various classes sold or amounts received for carriage or goods, and all amounts disbursed or received; enters particulars in appropriate books; totals and summarises under relevant headings.

actuarial clerk; a clerk *q.v.* who, by reason of practical experience or by preparation for the profession of actuaries, has sufficient technical knowledge to construct and use mortality and monetary tables as directed by qualified actuary.

adding machine operator; computer-clerk operator; operates adding machine; is responsible for the correct making of figures and the mechanical calculation required; sometimes mentally or mechanically checks calculations and additions made by adding machine; operator frequently called after type of adding machine, e.g. Burroughs operator.

addressograph operator; operates a machine for addressing envelopes, wrappers, etc., automatically, sets in plates embossed with name and address and inserts envelopes, wrappers, etc.; sorts plates away in cabinets, when not in use, frequently also embosses original addressograph plates by operating a graphic-type machine, in small firms this work is usually done by a junior clerk or office boy *q.v.*

advertising clerk; (i) a clerk *q.v.* who receives advertisements for insertion in newspapers, circulars, etc., counts up or measures advertisements, and charges accordingly; receives cash, cheques, etc., and makes out receipts; enters particulars of transactions in a cash book; (ii) a clerk *q.v.* employed for advertising expert (772) *q.v.* (freight) clerk; obtains details of quantities of material used on job from civil engineering staff and details of wages expenditure from timekeeper's records; apportions transport charges wherever possible to material used, e.g. transport of bricks charged to price of bricks; adds proportionate overhead charges and so obtains cost of completed works.

amanuensis; writes, from dictation, letters, articles, literary work, etc. assistant accountant, as for accountant.

assistant book-keeper, as for book-keeper.

assistant cashier; as for cashier, when he/she assists in receipt and issue of receivable duties, and for whom he/she deputises.

assistant chief clerk; as for chief clerk (361) but has less responsibility; assists chief clerk in his work and generally acts as deputy.

assistant secretary, as for secretary (330).

assurance company's clerk, see insurance clerk.

audit clerk; (i) (in accountant's office, see audit clerk, junior and audit clerk, senior); (ii) auditor *q.v.* who is employed in the audit department of a bank or insurance office, friendly society, trade union or other business having a number of branches, to visit a branch, examine accounts, compare vouchers, check with entries in cash books, ledgers, etc., and to submit a report in proper form; (iii) (railway) a railway clerk *q.v.* employed in the audit department at the headquarters or divisional office of a railway.

audit clerk, junior audit clerk; assists senior audit clerk and audit by extracting the necessary details from ledgers, cash books, etc.,

or by calling out figures to be incorporated in accounts or balance sheet; *q.v.* accountant's clerk, audit clerk, senior audit clerk; investigates and verifies balance sheet already prepared by a firm's employees, or prepares all accounts and balance sheet from a firm's ledgers, cash books, etc., where no balance sheet is prepared; submits balance sheet to principal with details of queries which may have arisen, together with a general report of work done; may investigate a firm's accounts for certifying profits and accounts for use in connection with the issue of a prospectus, or prepare accounts for bankruptcy proceedings, liquidation or receivership; sometimes, under instruction of principal, carries on financial affairs of a concern in liquidation, and acts as receiver; may also collect and/or prepare information for computation of taxation assessments.

auditor, see audit clerk.

authorised clerk (Stock Exchange); a clerk *q.v.* authorised by his firm and sanctioned by committee of Stock Exchange to appear on change and to transact on the floor of the House all classes of business on behalf of its principals, who may be either stock jobbers or stock brokers, who are members of the Stock Exchange.

baggage clerk; receives particulars and collects charges for the carriage of baggage and parcels, packed luggage; makes arrangements for the collection of baggage in advance and for delivering it at destination; forwards, at stated intervals, particulars of cash received, etc., to head office; in frontier agencies, crosses baggage to destination and arranges for the collection; negotiates with railway transport companies as to charges and facilities; receives and answers complaints and queries and initiates enquiries.

balance clerk, as for accountant's clerk.

bank clerk; a clerk *q.v.* who makes out pass books, enters up ledger accounts from cashier's journals, writes routine letters, and sends out various reminders, etc.; works out exchange rate of foreign remittances and amount of English money required to pay a foreign debt; acts generally under instructions of cashier and manager (791) *q.v.*

bank teller, see cashier, bank.

barrier's clerk; a law clerk *q.v.*, employed by barrister, who accepts briefs, makes appointments, keeps a record of engagements, keeps important documents filed or locked away, keeps account of fees and out-of-pocket expenses, and makes out barrister's accounts; watches the time at which cases in which his employer is engaged, are set down for hearing; accompanies his employer to court and sometimes on circuit, to take messages, fetch and carry documents, etc.

bill clerk, see costs clerk (law).

booking clerk (railway); ticket clerk, ticket clerk (general); a clerk *q.v.* at intending travellers, receives cash, keeps record of tickets issued and prepares certain returns; at the larger stations, work is sectionalised and particular duties are allotted to each clerk *q.v.*, e.g. at the ticket office at the smaller stations, also does work of parcels clerk *q.v.*

booking clerk (shipping service); issues tickets to intending travellers, calculates rates and certain taxes required by different countries, allows and writes out advance traveller generally; checks passports, keeps in constant communication with other shipping offices also booking passages, to avoid duplication; enters particulars of transactions in accounts books and answers communications with regard to passages booked, nature of accommodation, facilities, times of departure, etc.

book-keeper; accountant; (4) keeps accounts, or in large businesses, a section of accounts, in latter case, a responsible or chief book-keeper (331) g.v.; enters particulars of sales and purchases, etc., with prices paid or sums received in cash or by cheque, postal order, etc., from rough journal or day book into ledger or cash book, etc.; adds up entries, and makes up the final balance; (5) in small retail businesses, keeps accounts; receives orders, if by post, and instructs packmen (349) or vanmen (719) g.v.; enters up customers' books with details of goods purchased or returned; makes out weekly or monthly bills; keeps ledgers and account books; books cash received from shop or amounts handed in to shop; replies to minor queries and letters from customers; sometimes also acts as cashier (shop) g.v.

cashiers (French term), see cashier (shop).

canal clerk, as for toll clerk.

canal wharf clerk; a weighing clerk g.v. who weighs goods entering or leaving wharf on weighing machine; records charges for loading or unloading of boats, including charges for storage or wharf or in warehouse on wharf; allocates storage space and makes return of all charges to headquarters of canal company.

canvassing clerk; a clerk g.v. in an advertising office, or sometimes in the office of a newspaper or journal, who fills up spare time by calling on advertisers to induce them to give an order to his own firm; cf. canvasser (774).

card writer (history or works); writes notices, warnings, cautions, announcements, etc., to be posted in factory or works; writes ornamental labels for files, boxes, etc.; writes show and price labels; writes addresses on large packing cases, etc.; sometimes designs ornamental lettering for fairs, carions, advertisements, etc.

cash clerk; receives cash taken in shop; gives receipt and where necessary, change; receives slips of petty cash expenditure, e.g. fares paid by salesman (775) g.v. and pays; enters up details of receipts and disbursements in relevant books; passes cash book to ledger clerk g.v. for entering up details of cheques or cash paid in shop or settlement of outstanding accounts.

cashier; is in charge of all cash and responsible for all cash transactions; pays wages, keeps petty cash accounts; sends out bills for goods or services rendered; receives any cash that comes with orders or in payment of accounts and enters it in cash book, or which is paid in by other workers or officials who receive money during the course of their duties; takes cash periodically to bank and checks pass books, etc.; draws wages and petty cash cheques when necessary; sometimes specifically designated, e.g. tramway cashier.

cashier, bank; bank teller; has custody of and is responsible for, actual cash, i.e. coin, notes, etc., in bank; receives deposits over the counter and gives receipts; makes payment over the bank counter against cheques, bills, etc.; keeps records of transactions in cash book and balances against cash in hand at end of each day's business; in large establishments, e.g. head offices, the duties are sub-divided and are performed by chief cashier (731), receiving cashier, paying cashier, etc. g.v.

cashier (coal mine); assistant manager (349) g.v. by keeping wage-sheets of employees, with account of sums expended and deducted in respect of workmen's complicity insurance, etc.; takes wages cheques to bank; receives cash in exchange, pays wages and obtains receipts or signatures;

pays out small sums for petty cash, makes charge of receipts, vouchers, etc. cashier (dancing hall); receives entrance money from patrons, giving tickets or tokens in exchange, retains account of tickets issued to managers (354) g.v., together with cash to the amount so received, and may also take weekly or daily takings to bank.

cashier, paying; in large establishments, e.g. head offices of banks, where work is sub-divided, makes payments to customers, over the bank counter, such as sundries, further sub-divided into books so that customers also deal with algebraically according to same; usually done by bank cashier g.v.

cashier, receiving; in large establishments, e.g. head offices of banks, receives deposits by cheque, bills or actual cash from customers; work usually done by bank cashier g.v. cashier (shop); cashier (French), receives sums of money from customers in payment for cash purchases made in shop and gives change, if amounts of cheques and bills, checks rotation numbers to see that none is missing, and compares amount as shown by addition with the amount of cash.

cash checker, cash clerk; number change of cash store room in brewery; keeps record of all empty casks and their previous contents, is responsible for delivering an appropriate cask for the purpose required of it; keeps list of casks, hired or empty, which leave the brewery, and closes them in when returned.

chancery clerk; in a solicitor's office, has particular experience of practice of Chancery Division of High Court of Justice; usually attends appointments (many largely formal) at the Master or Registrar of Court sitting in chambers.

chaser, see progress clerk.

checker, see tally clerk; cf. checker (706).

checker-up, see shop clerk.

checkweigher (manure works), as for tally clerk.

chief booking clerk; the principal booking clerk g.v. at a large railway station where several booking clerks are employed.

claims clerk, claims department clerk (insurance company); a clerk g.v. whose chief duty is to deal with correspondence with the public and the company's servants dealing with property or personal injury, and ascertain facts and details; sometimes visits persons or places involved.

clearing house clerk (bank); a clerk g.v. at a central office where cheques, receipts and given to bank of origin to debit against drawers' accounts; receives bundles of cheques and other documents from bank messengers (758) g.v. sorts cheques and enters in book, names, numbers, amounts involved, etc., hands over bundles of cheques relating to each bank to clerks dealing with those banks;

totals at end of day, makes out balances and informs each bank of the amounts owing to it, and from it.

clearing house clerk (railway); a clerk g.v. engaged on division of clerks from through bookings from both goods and passenger train traffic; receives and deals with returns from number table (railway clearing house) (706) g.v. respecting exchange of stock in the different junctions throughout the country; performs other duties in connection with matters of general interest to all railway companies.

clerk; files and makes précis of letters; answers correspondence or prepares drafts for replies, either from dictation, or acting on instructions, or on his own responsibility; prepares statistics or collects information for use in answering letters; prepares schedules, specifications,

quotations, estimates, etc., under supervision of secretary (339) manager or head of department (341) g.v., or other officer or superior clerk of firm or company; answers enquiries on telephone, or uses telephone to give or obtain information on behalf of firm; interviews customers or clients on behalf of firm, or makes parties for interview with principal, or other higher official of firm or company; if required, takes notes of conversation at interviews; calls on clients or customers on behalf of firm, is often able to take instructions concerning order or to use typewriter; often used in very general sense for any person (other than high officials) employed in secretarial or managerial department of a business, as distinguished from manual workers.

clerk (cartage); hillside despatch clerk, hillside; a clerk g.v. at a colliery or coal merchant's depot; receives orders for delivery of coal; sees that correct grades and weights are loaded on to carts, gives instructions as to delivery, makes out invoices and carriers' delivery tickets, collects accounts relative to each transaction and returns them to colliery or merchant's office.

clerk to magistrate's clerk; an assistant in office of magistrate's clerk or justice of a petty sessional division; has knowledge of police court procedure; makes out warrants of the court; keeps account of fines imposed, paid and unpaid; accounts for fees received on issue of process, etc.; may act as deputy Clerk of Court in absence of his principal.

clerk room clerk; left luggage clerk; a parcels clerk g.v. employed in a clerk room of large railway station; receives luggage from travellers, issues numbered vouchers and collects charges; hands over luggage when required and checks off items as collected.

clothing store clerk (not government or local authority); compiles lists of employees requiring uniform; issues uniform when required; marks off items against employee, and receives signature for same; conducts correspondence with makers of uniform; checks supplies against invoices and sees that garments are up to standard of workmanship and material.

coal wharf weigh clerk; weighbridge clerk, weigh clerk, weighing clerk, weigh office clerk; a clerk g.v. in an office or coal merchant's office on a wharf; checks in quantities and grades of coal delivered by barge or vessels, and has coal weighed, if necessary; arranges for deliveries of coal to customers; cf. clerk (cartage).

coke clerk (gasworks, colliery, or oaks ovens), see residuals clerk.

coke and stores clerk; a clerk g.v. in the coke and stores department of gas works, where these departments are combined; cf. residuals clerk.

common law clerk; is employed by solicitor and may have limited or considerable independence or responsibility; has general knowledge of ordinary litigation in King's Bench, Probate and Divorce divisions of High Court; drafts briefs and correspondence and conducts notices summonses in chambers; attends taxation of costs; may have charge, under supervisor, of common law department of a solicitor's office.

comptometer operator, see adding machine operator.

confidential clerk; a clerk g.v., usually one who has been with firm for many years, who acts as amanuensis g.v. in particular, using director, or head of firm, or solicitor or chartered accountant; deals with more private or special correspondence.

contracts clerk; a clerk g.v. in costing department, who applies unit-costs supplied by costs clerk (933) g.v. to determine cost of certain specific branches of work, necessary for carrying out a contract; supplies figures as obtained to manager of firm, who is enabled thereby to tender for a piece of work.

conveyancing clerk; is employed in a solicitor's office; has special knowledge of forms of legal documents and procedure employed in transfer of real and leasehold property, e.g. land, houses, etc.; drafts contracts for the sale of property; draws abstract of title and prepares conveyances or other documents; examines title deeds and makes usual searches at Land Registry to see that title is good, prepares transfer and completion statements; attends to stamping of deeds at Somerset House.

copier, copying machine worker, copyist; (i) in solicitor's office, see engrossing clerk; (ii) in other business, any clerk g.v. employed in copying letters or documents in handwriting or typewritten or on a duplicating machine.

correspondence clerk; (i) type, usually from rough drafts prepared by head of department, e.g. sales manager (770) g.v., replies to customers; is responsible for correct wording and punctuation; returns letters to head of department for signature; usually also opens and sorts incoming correspondence and may himself reply in routine cases, (ii) see stenographer.

costs clerk; bill clerk; has special knowledge of costs and disbursements which solicitors are entitled to charge for their services, item by item; draws bills of costs and sends them to client for services rendered, and bill of "party and party" costs which solicitor has to lodge for taxation by Court when his client in an action is awarded costs against reverse party.

counter-off (manure works), *see for*

coupon clerk; a bank clerk g.v. at clearing house of bank, who receives bundles of dividend coupons against the funds of a large firm, corporation, or government loan; checks authenticity, and makes out schedule of debts against issue.

despatch clerk, despatcher; receives delivery notes, together with addressed labels from the department by which sales have been made, bands notes and labels to packets (845) g.v.; enters in goods despatch book record of weights and packages supplied by packers; where necessary, makes out railway despatch sheets; receives and checks accounts from railway for carriage of packages and passes them to cashier g.v. for payment.

distaphane operator; transcriber, a stenographer or typist g.v. who transcribes on a typewriter or distaphane, conversations, etc., recorded by dictaphone; places wax cylinder in reproducing machine and adjusts it so that a few words at a time are heard through earpiece.

duplicator; operator and controls machine for printing facsimile copies of letters, circulars, etc.; uses stencil, plate, type, etc., into machine; feeds in paper and removes printed sheets, if this is not done mechanically; inks, lubricates and cleans apparatus required, sometimes types or sets up type from original; often specifically designated according to the type of duplicating machine used, e.g. gammeter operator, gestimeter operator, romo operator.

engrossing clerk; copier, copying machine worker, copyist; employed by solicitor to "engross" documents, i.e. to make a fair copy from notes, often on parchment or in some other relatively permanent form, in handwriting or typewritten; must be familiar with technical abbreviations

and with legal forms and phrases; absolute; cf. law engrosser.

entering clerk; a clerk g.v. who receives consignments of goods into warehouse, checks invoices, makes notes of missing, imperfect or incorrect items, initials delivery papers and keeps lists of articles in store.

excess luggage clerk (railway), *see for*

booking clerk, at large station.

farm clerk; a clerk g.v. employed by a farmer (601) g.v. or the manager of a group of farms to keep records of sales disbursements, etc., for compiling income-tax returns, showing profit and loss on crops, sale of cattle, etc.; conducts correspondence with regard to purchase of material and live stock required by farmer and to sale of farm produce.

finance clerk; general term for clerks employed by financial houses, performs general clerical duties in connection with the notation of new issues of bonds and transfer of securities.

fish salesman's clerk; a clerk g.v.

who stands by fish salesman (796) g.v., records the results of each transaction, name and address of buyer, etc., and makes necessary arrangements for transfer of purchase.

foreign correspondent (clerk); a clerk g.v. whose main duty is to translate letters from foreign clients into English, and translate the answers from English to the required foreign language; may also be a qualified typist or stenographer g.v.

foreman clerk (railway); chief clerk in goods department at large railway station; *see for* goods clerk.

forwarder, *see* tally clerk.

freight clerk (railway), *see* goods clerk (railway).

gammeter operator; multigraph operator; (i) a duplicator g.v. who operates a gammeter type-setting duplicator; (ii) operates and controls by hand or electric motor, gammeter multigraph operator for folding circulars and letters; makes necessary adjustments for folding of circulars in various ways; feeds circulars in bulk to the machine and removes circulars when folded.

goods clerk (railway); freight clerk (railway); receives consignment notes in respect of goods for despatch; collects cash in certain instances; invoices goods to receiving station; receives delivery sheets for arrivals (715) g.v. keeps and prepares certain returns and undertakes some correspondence; at the larger stations, the work is sectionalized and particular duties are allocated to each clerk; cf. parcels clerk.

graphotype operator; operates a graphotype machine at office of addressograph printing machine printers, see addressograph operator; receives, from customers possessing addressograph machines, lists of addresses and addresses, composes letters, composing name and address on a thin metal plate, by working levers of embossing machine; sometimes re-uses old plates by stamping name and address flat and re-embossing.

hillside despatch clerk, hillside sales clerk (cartable).

Hollerith operator; operates and controls a Hollerith tabulating machine; inserts cards in punching machine and punches according to particulars required to be tabulated, checks punching in a verifying machine, in which the operator repeats the punching operation and if the second operation does not tally with the first the machine stops and the column in which the error occurs is thus located; places cards in a sorting machine, which is driven by electricity; adjusts machine in order to count desired items; replaces cards if counts of other items are required; places cards in batches in tabulating machine; runs batch of cards through machine; writes down total

of each batch separately; adds, by arithmetic or on comptometer, totals of batches at end of operation.

hot metal weigher (blast furnace); a clerk g.v. responsible to the works accountant g.v. weighing hot metal as ladles going over weigh bridge, sometimes done by weighman (379) g.v.

inspector's clerk; a clerk g.v. at head office of bank or insurance company who assists inspector (703) g.v. or inspector (insurance) (713) g.v. by receiving his notes on branch inspections and coding them into correct form; works out itineraries, routes, etc.; conducts correspondence with branch offices with regard to visits, after reports are approved by general manager, communicates relevant portions to branches, sometimes accompanies inspector on visits.

insurance clerk, insurance company's clerk; insurance company's clerk; a clerk g.v. who conducts correspondence with intending clients, advising them about the circumstances of their case and recommending certain policies; keeps schedules and lists of policies with premiums demanded and received; receives accounts from collectors and agents and advises the works accountant g.v. with regard to claims and instructs investigators, medical men, etc.; calls on policy holders and reports to company; arranges for medical examinations, valuations of property, etc.; keeps accounts of funds of company, investments, remittances, etc.

invoice clerk; a clerk g.v. who enters on invoice form, from original order and other documents, name and address of customer to whom consignment is being sent, details of each item with price and total cost.

junior clerk; usually a youth who has been promoted from office boy g.v.; performs the less important clerical duties such as keeping petty cash accounts, dealing with post, checking invoices, drafting routine letters, answering telephone calls in first instance, or filing up forms according to a pre-arranged plan of clerk.

junior warehouse clerk; or for junior clerk; is a large warehouse, may be a despatch clerk, invoice clerk g.v., etc.

kitchen clerk; in large restaurants, etc., under instruction of chef (300) g.v., writes out menus and draws food from stores on vouchers; receives checks from waiters against cooked food issued from kitchen and sends checks to control office; keeps account of stores in kitchen, takes stock of food weekly and renders return to control office.

laundry clerk; a clerk g.v. at a laundry engaged on making out accounts, entering figures in laundry book; answers complaints and queries from customers, keeps account books, wages sheets and insurance cards; receives cash in settlement of accounts; may also pay wages of a laundry staff, in small laundries, sometimes also acts as marker (318) g.v.

law clerk, lawyer's clerk; solicitor's clerk; general term for any clerk to a judge, barrister, solicitor, parliamentary agent, or in any public law office, including common law clerk, conveyancing clerk, chancery clerk g.v.

law engrosser, law writer; scribe; is usually employed in a law stationer's office to copy documents; duties *see for* engrossing clerk.

ledger clerk; accounts clerk; keeps journal and ledger accounts of goods bought or sold; enters up accounts of goods sold, from salesman's order book, into journals and transfers totals of account into ledger; renders accounts and statements to customers; receives cash in payment of accounts and returns receipts to customers,

may deal with correspondence in connection with accounts; its large firms sometimes specifically designated, *e.g.*, bought ledger clerk.

ledger clerk (bank); a bank clerk *q.v.* whose main duty is to enter from journal into customers' ledger accounts, amounts to their credit and debit under various headings according to the nature of their accounts, *i.e.*, deposits, current, etc.; reports to chief cashier (791) *q.v.* state of accounts and overdrafts.

left luggage clerk; *see* cloak room clerk.

lost property clerk; a parcels clerk *q.v.* employed in lost property office at large station; receives, and keeps register of, articles left in trains, etc.; interviews claimants and collects fee when property is restored to owner.

machine clerk (colliery); machine man, *as* for coal wharf weigh clerk.

mail order clerk; *see* order clerk.

meter clerk; a clerk *q.v.* in meter department of gas works who keeps record of new meters received from makers, old meters tested, meters repaired, meters fixed for customers, and keeps stock of meters.

minute clerk; a clerk *q.v.* who attends company, committee or directors' meetings; records business transacted, in shorthand or long-hand; writes or types out transcript of notes for approval by secretary (533) *q.v.*, etc.; circulates to persons concerned and draws their attention to points on which action should be taken; himself takes action in minor matters; sends out notices to members, directors, etc., for future meetings, together with copies of documents to be read before the meetings; answers minor correspondence about documents, meetings, etc.; keeps list of members, directors, etc., with addresses.

multigraph operator; *see* gammeter operator.

note taker; *see* shorthand writer.

number taker; *see* cash checker; *cf.* number taker (railway) (705).

office boy, office girl; runs messages, addresses envelopes, makes up, stamps and posts letters, parcels, circulars, etc.; makes press copies of letters and accounts, and indexes them; sometimes answers enquiries of callers, and puts them into communication with senior members of staff; *cf.* post boy, junior clerk.

order clerk; (1) *mail order clerk;* receiving clerk; receives orders with receipt attached, where payment has been made, from ledger clerk *q.v.*; enters details of order in journal, makes out delivery note and passes to department concerned for dispatch or collects articles and hands to packer (949) *q.v.* for packing and dispatch; where orders are received without previous payment, takes delivery note first to ledger clerk to authorize dispatch; (2) keeps records of orders and is responsible for seeing that they are executed to time; interviews shop foremen daily to see how work is progressing; *cf.* supervisor (401).

parcels clerk; receives parcels and miscellaneous goods for dispatch by passenger or parcels train; assesses charges and sometimes collects cash; prepares delivery sheets for carrier (719) *q.v.*; keeps and prepares returns and undertakes certain correspondence of the latter stations; the work is restricted and particular duties, *e.g.*, cloak room, lost property office clerical duties, are allocated to particular clerks; at smaller stations the work is done by booking clerk *q.v.*; *cf.* goods clerk.

pay clerk; wages clerk; prepares wages sheets of employees, calculates amount of money to be added or deducted in respect of overtime, time, sickness, etc.; if alterations are made in agreements, adjusts scales and rates of pay accordingly.

piecework clerk; a pay clerk *q.v.* who calculates amount of weekly wages payable to each employee on basis of output according to rates from works.

policy examiner (insurance); an insurance clerk *q.v.* who reads policies before they are issued to clients to see that they are in accordance with the requirements of the case and are legally binding; also takes endorsements or special clauses added do not conflict with other clauses.

porter clerk; unappointed clerk, a railway employee on an intermediate grade, *i.e.* in receipt of weekly wage on the salaried scale, performs duties of railway clerk *q.v.* and when opportunity occurs, may be transferred to the permanent salaried grade.

post boy, post girl; assists post clerk *q.v.* by collecting letters from departments, affixing stamps, making up post bags, taking letters, parcels, etc., to pillar box or post office, taking letters having letters registered, etc.; may on certain simple clerical work.

post clerk; receives letters and parcels from various departments for despatch by post, weighs where necessary, stamps, and places in firm's private post box; keeps cash book in which are entered amounts expended on postage; may sometimes open correspondence and sort for departments concerned; in small establishments, work is usually done by junior clerk *q.v.*

progress clerk, programme; checker; makes diagrams representing progress of important contracts for use of manager; traces and pushes forward work in the various stages from operation to operation until it is ready for delivery; obtains data for his calculations from heads of departments or, if necessary, from a record of output, etc., in works.

purser (ship); keeps culinary accounts in cases where hire is conducted on cost book system; this system is now practically obsolete.

railway clerk; general term for any clerk in a railway company; usually specifically designated according to duties, *e.g.*, booking clerk, goods clerk, parcels clerk *q.v.*

railway rates clerk, rates clerk; a railway clerk *q.v.* in the goods manager's office engaged on assessing the charges (where scales are not already in existence) in respect of the transport of goods from place to place.

receiving clerk; *see* order clerk.

recorder (explosives); a works clerk *q.v.* in one of the sheds of an explosive factory who makes a book record of amounts, kinds, etc., of explosives manufactured.

relief clerk; a clerk *q.v.* allocated to the duties of clerks absent on leave, on account of sickness, etc., or to provide assistance in connection with pressure of work arising from various causes.

rental clerk; an accounts clerk *q.v.* employed in the rental department of a gas company, *i.e.* the department which deals with accounts of gas supplied to consumers.

residuals clerk; coke clerk (gas works clerk); or coke clerk; assists ordon for of coke or residuals; makes out delivery notes for dispatch of goods; renders accounts to customers; checks railway rates and charges for goods despatched.

servicer (not employer or on own account); *see* law engrosser.

servicer clerk; is clerk to law engrosser *q.v.*; duties similar to those of engrossing clerk *q.v.*

secretary (cricket, football or golf club); deals with correspondence of club; convenes meetings, records minutes, arranges fixtures, prepares returns; arranges for upkeep of playing grounds; pays wages of groundsmen (899) *q.v.*; sometimes also keeps accounts and receives

subscriptions; where a club house is maintained, is responsible for all details of management of such premises, including catering.

secretary (club); conducts correspondence with hunt members or with farmers and landowners over whose property the hunt wish to meet; convenes meetings of hunt members, issues notices, arranges dinners, balls and other social functions; keeps list of members and arranges for election or retirement of new members; collects subscriptions; pays accounts and claims.

secretary (mine); keeps list of employees at a specific mine, gives vouchers to colliery headquarters for stores, machinery, etc., draws for use in the mine; keeps account of amount of coal, etc., brought to surface, sold, or sent to colliery depots; keeps a log of daily events such as progress of boring, rushes of water, prevalence of coal gas, accidents, etc.; keeps petty cash and wages accounts; works out statistics, including output, sales, etc., so that the productivity and earning capacity of the mine can be seen as a unit, and sends these returns periodically to colliery headquarters.

secretary, private secretary (not Government); assists manager, secretary, managing director of a company, an author, editor, journalist, member of parliament, accountant, or other person in position of responsibility with personal correspondence and accounts; opens correspondence for employer, answers routine correspondence according to instructions or on one's own initiative; receives or produces previous correspondence to enable employer to answer important correspondence with the minimum of trouble; interviews callers, answers telephone, makes list of appointments, copies documents, makes purchases, calls on clients, etc.; bears bulk of employer's copies documents by hand or typewriter; makes researches on technical matters; is usually a competent stenographer and clerk *q.v.*

settling room clerk; a clerk *q.v.* employed by a firm of stock jobbers or stock brokers in its settling room in the Stock Exchange; checks bargains or business done and at settling time performs clerical work in connection with transfers of stocks and shares; when not engaged in settling room does clerical work in principal's office.

shipping clerk (in commercial office); deals with Customs and has knowledge of consular requirements of Foreign Countries; deals with bills of lading, insurance, ocean freight and rail rates, waybills, carting and lighterage, dock charges and, in a small firm, would also make out accounts for charges incurred; when not so occupied, may deal with bills of lading only.

ship's clerk; *see* tally clerk.

shop clerk (workshop); checker-up; keeps record of amount of work done by piece workers for purpose of calculating cost and wages; sometimes done by piecework checker (728) *q.v.* **short-hand clerk;** shorthand writer (clerk); a clerk *q.v.* whose chief duty is to take down in shorthand, minutes, letters, instructions, drafts of documents, etc.; may also transcribe them, or dictate them afresh to shorthand typist *q.v.*; sometimes also acts as private secretary or confidential clerk *q.v.*

short-hand typist; *see* stenographer.

shorthand typist (typewriting harem); a typist *q.v.* employed by typewriting bureau, who is available for hiring by client to take down letters, etc., in shorthand and transcribe them on the typewriter, either at bureau or in client's own office.

shorthand writer; (1) *see* shorthand clerk; (2) *note taker;* attends at company meetings, lectures, court cases, law courts, etc., to take verbatim reports; transcribes record of

proceedings on typewriter or dictates to typist *q.v.* from shorthand notes.
solicitor's cashier; a cashier *q.v.* employed in solicitor's office; needs to have accurate knowledge of accounts owing to specialised system of book-keeping often adopted, and to large amounts of checks; money often passing through his hands; often prepares income tax accounts for firm and for its clients; looks after insurance business; collects and remits to clients interest due on mortgages; keeps trust and estate accounts, etc.

solicitor's clerk, see law clerk.
spirit clerk (distillery); sends notice to Excise Officer when spirit is being transferred from store to warehouse; makes out Excise permits for signature of Excise Officer, endorsement notes for despatch of goods by rail or boat and warrants for delivery of goods from bonded store or warehouse; accompanies Excise Officer on his rounds and checks duties charged on behalf of trader; sometimes takes "dips."

statistical clerk; a clerk *q.v.* in the statistical office of a railway company, insurance office, trade union, employers' association, etc.; receives data from branches or departments of office or from computeriser operator *q.v.*; totals averages, makes into percentages, or otherwise treats material by arithmetic, slide rule, etc., under the direction of actuary, chartered accountant or secretary.

stenographer; correspondence clerk, shorthand typist; wholly engaged in taking down letters, statements, memoranda, etc., in shorthand from dictation of another, and in transcribing them on typewriter.

stock clerk; stores clerk; a clerk *q.v.* in a warehouse, etc., whose main duty is to keep a record of kind, grade and quantity of goods entering a warehouse and from whom received, all goods leaving a warehouse and to whom sent; keeps a list from day to day or week to week of stocks of goods remaining in warehouse so that manager may order further stocks if necessary, or report that certain lines of goods are not being sold or used.

Stock Exchange clerk; may be either an authorised or unauthorised clerk *q.v.* performing clerical work in connection with the Stock Exchange.

stock-taker's clerk; accompanies stock taker (789) *q.v.* and takes down, or checks, lists of goods, etc.

stores clerk, see stock clerk.

stores clerk (gasworks); checks receipt of goods at works, and enters them in "goods received" book; issues stores to workmen, and enters particulars in "goods issued" book; keeps stock of stores, and advises manager when a fresh supply is required; returns empty packages, and sees that credit is obtained for them.

tally clerk, tally man, tally woman, tallyer; checker, forwarder, ship's clerk; keeps record of materials produced, of goods entering or leaving premises, etc., or checks actual deliveries or despatches against a list of goods due to be delivered or despatched; at mine or quarry, checks number of boxes, trucks, or corves which each filler (779) *q.v.* brings to crusher, and keeps record for purpose of calculating output, wages, etc.; when loading or unloading ships, checks cargo from warehouse or craft; enters particulars in rough books, and checks in office the weight or measurement, to enable tonnage bandied to be calculated; at warehouses, etc., keeps records of cases, bags, barrels, etc., coming in or going out, or weighs or measures goods coming in or going out; agrees account with carman (719) *q.v.* and signs carman's receipt.

ticket clerk, ticket office clerk, see booking clerk (railway.)

toll clerk; calculates, from scale, tonnage charges to be levied for passage of boats or barges through lock or by toll bar in river according to gauge or "dip" readings taken by lock-keeper (741) *q.v.*; issues permits or tickets to shippers and forwarders to counterpart to hand office; sometimes also "takes dips" or reads gages on boat; in small locks, work is usually done by lock-keeper.

transcriber; (i) see shorthand operator, (ii) a pupil to a shorthand writer *q.v.* to whom is dictated the shorthand writer's notes which he takes down in shorthand and afterwards writes copies out either by hand or by typewriter.

travelling clerk (railway), see for relief clerk.

typist, typewriter; operates a typewriting machine for copying, on paper of required size, manuscripts, letters, tabulated statements, etc.; addresses envelopes, makes extra copies, if required, by placing several sheets of paper in typewriter with carbon sheets inserted between them; incorrectly called typewriter.

unappointed clerk, see porter clerk.

unauthorised clerk; a clerk *q.v.* employed by a stock jobber or a stock broker, who is a member of Stock Exchange; works in Stock Exchange building by permission of Stock Exchange Committee; mainly engaged in watching changes in prices and amending price lists for his principals and their authorised clerks, and in answering enquiries to relieve his principals; is not authorised to deal on the floor of the House; *cf.* authorised clerk.

underwriter's clerk; keeps book record of ship's policies, claims, etc., for employer who is an underwriter or underwriter's agent (704) *q.v.*

wages clerk, see pay clerk.

warehouse clerk; general term for any clerk employed in a warehouse, including invoice clerk, entering clerk, etc., *q.v.*

weighbridge clerk, weigh clerk, see coal wharf weigh clerk.

weigher (manure works), see for tally clerk.

weighing clerk, weigh office clerk, see coal wharf weigh clerk.

works clerk; general term for any clerk employed in works, or time clerk, piecework clerk, progress clerk, and sometimes wages clerk *q.v.*

ORDER XXIX.—WAREHOUSEMAN, STORE-KEEPERS AND PACKERS.

940.—WAREHOUSEMEN.

assistant warehouse keeper (dock); *cf.* for warehouse keeper, whom he assists and for whom he deputises; supervises warehouse foreman and warehouse labourers (948); responsible for periodic inspection of goods warehoused to ensure that they are not damaged by damp, overheating or rats; supervises delivery of goods in absence of foreman.

assistant warehouseman; assists warehouseman *q.v.* and takes his place in his absence; does less skilled or routine work in keeping records, loading stores, supervising packers, etc.; may have charge under warehouseman of a section of warehouse.

bonded store and vault keeper, see for warehouseman, bonded.

bonding storeman, see warehouseman, bonded.

cold air stores manager; has charge of cold air stores; controls and supervises staff, and is responsible for proper storage of goods and their receipt and despatch.

counterman (lat class) (drugs and fine chemicals); is in charge of packing and despatch room, and is responsible for making up and packing of mixed order for chemicals, etc.; requisitions bottles, labels, wrapping, papers, boxes, barrels, and chemicals from stockkeeper (941) *q.v.*

counter-off, warehouse; checks and records numbers of articles entering or leaving warehouse.

despatcher, despatch clerk, despatch man; goods despatcher, addresses packers, goods, and despatches them from warehouse, obtaining and filing carman's signatures for receipt of goods; keeps books showing consignees, nature of packages, etc., usually keeping separate books for each railway company or carriage contractor; *cf.* newspaper despatcher (943).

foreman (warehouse, etc.), warehouse foreman; head warehouseman, overlooker (warehouse); supervises packing, loading, and despatch of goods from warehouse furniture depository, or other place of storage; directs and controls workers therein; sometimes also prepares statements of goods loaded, trucks used, etc.; often further distinguished according to branch of industry, e.g. foreman packer, foreman yard packer, warehouse foreman, packer foreman, etc.

gauger (bonded warehouse); goes round warehouse with Excise officer; sets-up gages, i.e. places them on blocks to render level for capacity test; starts, i.e. knocks out, bungs; replaces bung, with mallet, after tests; when not so employed, assists in loading and unloading casks, packing cases, etc., for receipt or despatch, *cf.* storeman (distillery) (941).

give-out (hosiery); a warehouseman *q.v.* issuing yarn, etc., in a hosiery factory.

grain superintendent, granary keeper, see warehouseman grain.

head warehouseman, see foreman.

order man; a warehouseman *q.v.* who draws goods from store, makes up, packs and despatches them, in fulfilment of orders received through post or firm's travellers.

overlooker (warehouse), see foreman; sometimes specifically designated according to status, e.g. second overlooker, under overlooker.

packer; a warehouseman *q.v.* employed in certain minor textile trades where smallwares, etc., are stored in racks.

receiver, see for warehouseman.

receiving house keeper (docks), see warehouse keeper.

safe deposit keeper, custodian; guards safes and strong rooms of safe deposit establishment, shows customers to their safes and takes note of persons entering and leaving strong rooms.

safe deposit manager; is in charge of safe deposit establishment, and responsible for safety of articles deposited; interviews clients, arranges rents.

stock keeper, stocker, stock room man, stockman; a warehouseman *q.v.* who keeps stock book showing amount of stock (as distinguished from stores, which are normally raw or semi-manufactured materials, or tools, for use in manufacture or production), and quantities of goods passing through warehouse or stock room; checks clerk books periodically against stock in hand; *cf.* stockholder (789); in some firms (e.g. cornet making), also interviews travellers and buys materials.

stock taker, wool warehouse; a stock keeper *q.v.* employed in warehouse wherein is stored raw wool awaiting processes; in particular, knows various grades of wool stored, keeps stock books and maintains stock,

taker-in, piece; takes in work from weavers (370) q.v.; measures it with yard stick, examines cloth and hems it in, recording defects against weaver concerned; forwards records to wages clerk (833) q.v.

vat keeper; a bonded warehouseman q.v. who has charge of vats in which wines or spirits are stored, and superintends addition or withdrawal of liquor.

vault keeper; a bonded warehouseman q.v. who has charge of vaults in which wines or spirits are stored, and is responsible for due observance of terms of bond; supervises cooper (477) q.v. or other workers employed in vaults; in P.L.A. service, reported direct to dock superintendent (731) q.v.

warehouse keeper (dock); receiving house keeper; has charge of warehouse premises and is responsible for safe custody, locking them up at night, etc.; keeps necessary records of goods passing in and out; if under P.L.A., forwards statements to collector of dues (731) q.v.

warehouseman, warehouse; general terms for any man employed in any capacity in or about a warehouse, (i) in unloading or unpacking goods, in carrying or trucking them, in weighing them, in packing and addressing them and preparing them for despatch, etc.; (ii) in keeping account of stock, and of goods received or despatched, and in getting out orders; (iii) in inspecting work of subordinate workers; often also performs one or more of a great variety of other duties, according to industry or business, e.g. unpacking, preparation, and care of raw or semi-manufactured materials, and issuing them to other workers; examining finished goods, and rejecting or sending back for correction, those that are imperfect; keeping account of faults in weaving; waiting upon salesman (775) q.v., etc.; sometimes (loosely) used in sense of stockkeeper (941) q.v.; often further distinguished according to nature of duties or class of goods handled, e.g. brown warehouseman (warehouse linen), cake q.v. (oil cake) warehouseman, carrier's warehouseman, cloth warehouseman, corn warehouseman, cotton warehouseman, nickel warehouseman, oil warehouseman, rag warehouseman (rag sorting), rough warehouseman (rough quilting), etc.

warehouseman, bonded; bonding storeman; a warehouseman q.v. in a warehouse where goods subject to Customs or Excise duty are received and stored, "under bond" that duty will be paid when goods are cleared for consumption.

warehouseman, grain; grain superintendent, granary keeper; a warehouseman q.v. in granary, besides general warehouse duties, supervises discharge of grain from ships by elevators, into warehouses and necessary weighing arrangements before grain is placed in store; ensures that daily inspections are made by grain examiners (942) q.v.; examines parcels of grain reported as of low quality and reports to owner.

warehouseman, wool; is employed in wool sorting warehouse as a wool stock keeper q.v. or otherwise; is responsible for condition of sorted wool and for its distribution and despatch.

warehousewoman, as for warehouse-
TEAR

wool stock keeper; keeps stock books showing amounts of sorted and of unsorted wools in wool sorting warehouse.

941.—STOREKEEPERS.

assistant stockkeeper (Post Office), supervises warehousemen (940) and assistants (942) q.v., and is responsible for carrying out of instructions regarding his section of Post Office Stores Department.

chief stockkeeper (Post Office), superintends several branches of Post Office Stores Department, and instructs stockkeepers q.v. in charge of individual branches.

drug keeper, drug storekeeper (textile printing); keeps stores of colouring matters, mordants, and other chemicals, etc., for use in textile printing, and issues supplies as required.

explosives man, magazine keeper, magazine storekeeper, magazine man, powder magazine attendant, powder distributor, powder man; is in charge of stocks of explosives, which he checks in or issues to workmen as required; is responsible for seeing that instructions regarding persons entering magazine, locking doors, etc., are carried out.

material man (copper mines); a stockkeeper q.v. who stores and issues supplies of various material and tools for use in or about mine.

pattern keeper, pattern stockkeeper; keeps store of patterns, templates, etc.; sometimes also keeps records of patterns and drawings made; often further designated, e.g. smith's pattern keeper.

powder salesman (metalliferous mines), as for explosives man.

receiver of arms (small arms); a stockkeeper q.v. who receives guns, rifles, etc., from works and sends them to store house; keeps simple book record of deliveries.

spelterman (galvanising sheds); a stockkeeper q.v. who keeps stock of spelter or zinc and delivers supplies to galvanising baths.

stockkeeper (textile mills); a stockkeeper q.v. in charge of wool, tops, yarn, etc.; sometimes specifically designated, e.g. top stockkeeper, yarn stockkeeper.

stockkeeper, store holder, store minder, storeman, storer, store room man, stores issuer, storeman, warehouse man; maintains records, and issues as required, stores, i.e. (naturally) raw or semi-manufactured materials, tools, explosives, fuel, oil, etc., for use in production or repair, as distinguished from stocks of finished articles, cf. stockkeeper (940); this distinction, however, is not always strictly observed; often further distinguished according to article stored, or according to article stored, e.g. iron stockkeeper, blue paint stockkeeper, bottle stockkeeper, cut and bolt stockkeeper, standing frame stockkeeper, tool stockkeeper.

stockkeeper, negative (photographers); receives negatives from printing department, names and numbers them and enters in record book; stores negatives in boxes and returns to printing department as required.

stockkeeper, plate (accumulators); keeps store of accumulator plates, for use in making or repairing electrical accumulators.

stockkeeper (Post Office); is in charge of staff in branch of Post Office Stores Department; supervises assistant stockkeepers, storemen, warehousemen (940) and porters (755) q.v.

stockkeeper, victualling; has charge of stores for victualling superintendent (750) q.v.

storeman, storer, store room man, storeman, store issuer, see storekeeper.

storeman (distillery); supervises necessary operations, directing labouring staff, from drawing off of spirit from stills until casking ready for despatch; attends to cocks controlling flow of spirit from stills to vats in stores; ascertains strength of spirit by use of Sykes hydrometer and thermometer and adds distilled water to spirit, if necessary, to reduce; gives reads with dip rod to ascertain quantities and sees to despatch

of same; in bonded warehouse, determines strength under supervision of spirit clerk (939) q.v. and Excise officer.

storeman, flax; flax and yarn storeman; is in charge of store containing line, i.e. baled flax or hemp; keeps record of quantity in hand; is sometimes also in charge of utensils used in preparing and spinning yarn, and of stock of spun yarn.

storeman (Post Office); is employed on less skilled duties in handling of stores in Post Office Stores Department; checks packages into store from van; notes particulars of contents and makes examination as to condition; puts goods in proper position in store; makes out consignment vouchers for goods leaving stores; checks packages to van.

storeman (railway); issues sponge cloths, oil, tallow, waste, brushes and other stores required by engine men (701) q.v.; keeps records of incoming and outgoing stores; requisitions for additional stores as required; renders periodical statements of stores in stock.

storeman (beer making); receives orders from office and supervises packmen who look out different kinds of casks in stock room or warehouse to make up orders; may himself assist in packing operations.

warehouse man, see stockkeeper.

weight binder; a stockkeeper q.v. in tapes, smallwares, and elastic web industry.

white cloth man; a stockkeeper q.v. in charge of white cloth store, in textile printing industry.

942.—WAREHOUSE AND STOREKEEPERS' ASSISTANTS (NOT LACE WAREHOUSE HANDS).

bench hand, bench worker (news-papers); an assistant, despatches, newspaperer; counts newspapers into bundles; packs bundles, and despatches them to newsgate; does other similar work in warehouse department of a newspaper office or of a wholesale newspaper's establishment, usually working at a bench.

booker (glass), glass caller-over, see marker-down.

book publisher's collector; makes up bookellers' orders by going round shelves in stock room and picking out books required; orders from warehouse books not in stock, sometimes employed on outside work, collecting books from other publishers and from bookellers; cf. book collector (755).

chamberman (cold storage), see cold storage hand.

checker; verifies, by comparing with order or delivery note, weight, number, grade, etc., of goods received or despatched; often further distinguished according to nature of industry or class of goods checked, e.g. sack checker, tea checker.

clerical labourer (Government dockyard); assists in storehouse, in checking and ordering stores, and does unskilled clerical work in Government dockyard.

cold storage hand, cold stores labourer, chamberman (cold storage); carries goods in and out of cold storage chamber; stacks or unstacks them in position, and does other labouring work in connection with cold storage.

counterman (2nd class) (drugs and fine chemicals); measurer, weigher (drugs and fine chemicals); measures or weighs out chemicals; bottles, packs, and makes up orders received from 1st class counterman (940) q.v.

counterman, dry; a counterman, 1st (940) or 2nd q.v. engaged in packing dry, i.e. solid, chemicals, into boxes, bottles, bags, etc., using shovel, scoop, etc.

counterman, wet; a counterman, let (940) or 2nd q.v. engaged in packing liquid chemicals into bottles, casks, drums, etc., hand pouring from small vessel or from tap.

examiner, grain; looker and grain examiner; under direction of grain superintendent (940) g.v. daily inspects grain throughout warehouse, searching for signs of deterioration through damp, overheating, rats, weevil, etc.; reports results of inspection; if necessary arranges for grain to be moved by conveyor belt from one part of warehouse to another.

examiner, sack; examines sacks in warehouse to ensure that they have been properly cleaned and rendered. may also act as sack checker q.v.

feet sorter; sorts and grades feets, i.e. scraps of textile material, in a feet dealer's warehouse.

giver-out, card wire; gives out wire from warehouse case, for in manufacture of card clothing.

lifter, see warehouse labourer.

marker-down; looker (glass), glass roller-over; counts finished piece or rolled glass as it is received in warehouse, recording size, weight per square foot, quality, etc. often helps in moving plate and sheet glass; checks sizes on glass plates and sheets, as required; checks out and records particulars of glass leaving warehouse measurer (drugs and fine chemicals), see counterman (2nd class).

newspaper despatcher, newspaper worker; see bench hand (newspapers).

order hand (commercial firm); see warehouseman (940) or order man (940) g.v. by getting out and putting away goods required to fulfil orders.

plier (jam making); pot stacker, stacker; a stockroom hand q.v. employed in stacking-down jars of jam, i.e. pushes uncovered jars in trolleys to stock room and there piles them in smallest possible space, to stand for several days before covering.

publisher's assistant; a warehouse hand q.v. in a publisher's establishment.

puller boy, puller-in (glass); packs blown glass articles on trucks and pulls or pushes or transfers glass from one warehouse to another.

runner, see toppler.

selectors ripper; a warehouse hand q.v. who wipes oil and dust from scissors, knives, razors, etc., with chamois leather, in preparation for packing.

shifter, see warehouse labourer.

stacker, pot stacker, see plier (jam making).

stacker and packer, see toppler.

stock room assistant, stock room hand; puts finished goods, as received, in proper place in stock room; sorts out goods required to fulfil orders, ready for packing and does other similar work in stock room; sometimes also keeps records of receipts and issues.

store boy, storehouse boy, store-keeper's assistant, stores attendant, stores assistant, stores labourer; assists in handling, receiving, and issuing of stores (raw or semi-manufactured materials, oil, spare parts, etc.) in store room; in warehouses also keeps records of stores received and issued; procures duties vary with industry; sometimes distinguished according to class of stores handled e.g. rivet stores attendant.

stower (grain milling), see toppler.

stewer, jute; carries and stacks raw jute or jute goods in warehouses and store room, under direction of warehouseman or storekeeper (940) g.v.

stower (tinplate); stacks boxes of tinplate in sorting room or warehouse.

tool finder; finds tools for skilled workmen; precise duties vary with industry, e.g., in tube making industry, sorts into sizes and examines dies and plugs.

toppler, warehouse toppler; runner, packer and packer, stower; a warehouseman's assistant q.v. who conveys sacks of flour, grain, bran, etc., from packing room and stacks them one on

top of another, in tiers, in warehouse; sometimes specifically designated, e.g. bran toppler.

trucker, warehouse; warehouse un-loader, warehouse assistant, warehouseman's assistant, see warehouse labourer.

warehouse boy; delivers goods, runs messages, and assists in warehouse generally.

warehouse girl; does packing, labelling, and similar light work either in receiving department or in finished goods department of a warehouse.

warehouse hand, warehouse worker; general term for any person employed in warehouse, usually in receiving, stacking, loading or unloading, weighing, or checking goods, or in trucking or carrying them from place to place; or in getting out orders, packing, labelling, and despatching, etc., but sometimes combines these with other duties e.g., in railway workshops, sometimes looks over finished articles, checks, wraps up, and packs; in umbrella making, fits umbrellas with cases and tassels.

warehouse labourer; lifter, shifter, warehouse assistant, warehouseman's assistant, warehouse trucker, warehouse un-loader; stacks goods or takes them from stock, unloads vans and trucks, rolls barrels, carries or trucks goods from place to place and does other labouring work in warehouse, under direction of warehouseman (940) g.v.

weigher; (i) weighs goods in bulk on scales or weighing platform; (ii) weighs small parcels in scales; (iii) (grain miller) weighs a specific quantity of grain or flour into each sack; (iv) (drugs and fine chemicals), see counterman (2nd class).

943. HOOKERS, LAPPERS, MAKERS-UP, AND PLAITERS.

nicter (hovery, wool); ties up hanks of wool or woollen garments in form convenient for bundling.

holder (in Chebriek dyeworks), see maker-up.

belt finder (flannellette); a maker-up q.v. or an assistant to maker-up, who turns in raw end of flannellette after it has been rolled.

buncher, bank buncher, yarn buncher; hooker; makes up banks of yarn into bunches, for despatch, tying them with yarn or with cord.

handler, see maker-up, bundle (yarn), and maker-up, cloth; often further distinguished according to class of article handled, e.g. piece bandler, yarn handler; cf. bandler, press bandler (flax and hemp); sciner; puts together necessary number of banks of yarn to form a bundle, a standard measurement in the trade; cf. maker-up, bundle (yarn).

bundler, press; delivery room press bandler; bundle presser, cloth presser, presser, pressman; minds a power bundling press, of any type; places cloth in press, and switches on pressure to compress it; secures compressed cloth with twine.

carder (tapes, smallwares, etc.); reeler (tapes, smallwares, etc.); twister; winds braid, tape, or other smallwares on to cards or reels, by hand machine, from bobbin; places into machine on machine card or reel, makes initial turn of tape, etc., thereon by hand, and turns handle to wind on remaining tape; cuts off tape, etc. when sufficient wound, usually guided by automatic measuring recorder; cf. carder (353) and (363).

chopper (tarpetts), as for measurer.

cleanser, see plaiter.

cleanser, piece; removes stains, spots, etc., from piece goods before they are lapped, by sponging them with soap and water, or by chemical means.

creasing and lapper; minds a creasing and lapping machine, as for plaiter crispier, see plaiter (hand).

clutter (cotton); winds cotton yarn from bobbins into skeins or knots, for despatch to dyers, etc.; places bobbin on spindle and draws off yarn, by hand, winding it with an 8 motion over two vertical rods fixed on a bench.

cutler, see plaiter.

dresser, pattern (making-up); prepares by folding, stitching, etc., patterns, principally silk, ready for pattern maker q.v.

folder, cloth folder, piece folder, folder-up; see plaiter; often further distinguished as follows: to article folded, e.g. sheet folder.

folding machine, mindler, see plaiter (machine).

foreman maker-up; superintends all processes connected with folding, stamping, ticking, parceling and final despatch of goods in making-up department.

foreman packer; is in charge of packers q.v. and responsible for packing, pressing, and despatching of yarn, cloth, etc., by parcel.

gimp, windup; minds a machine which winds gimp on to reels, for convenience in transport; as for carder (tapes, smallwares, etc.).

grosser; a yarn handler q.v. who counts out hanks or skeins of yarn into bundles of a gross, and presses them together in hand or hydraulic press having also permitting tying of yarn under pressure; lays paper wrappings, and twine on back of press, operates press and ties yarn, cf. bundler, press.

hanker, see buncher.

hooker, cloth hooker, piece hooker, hooker-and-lapper; piece; folds cloth, and simultaneously measures it, by passing it backwards and forwards between two hooks placed at a prescribed distance apart, and fastening it in place by a slight bend on selvage.

knorter, see maker-up, handle (yarn).

knorter (thrown silk); hard silk knorter; two knorters; knorters together both ends of a reel or skein of silk to enable ends to be identified when skein is unwound.

lap layer; unrolls from roll three or four yards of cloth and forms this into series of small laps (pleat folds), so facilitating display at examination of cloth as roll; secures lapped roll by binding with tape, ready for despatch; often done by maker-up q.v.

lapper, lapper-up, lap man, cloth lapper, see plaiter.

lapper, apprentice; see under-lapper.

lapper (flax and hemp); examines, measures, cuts, and folds finished flax or hemp cloth; sometimes combines this with work of packer (949) g.v.

lapper, gimp; winds gimp, by hand, on cards, ready for sale.

lapper, line; makes up certain types of cord, or lines, by hanks, and winds end and tail hank; as for reeler (not silk) (367) g.v. reeler (finishing).

lapper, machine, as for lapper.

lapper (tape), tape lapper; minds and does a lapping machine, which winds tape from bobbins into knots or skeins; guides tape from bobbins to two pegs, starts up machine causing pegs to rotate; stops machine and cuts tape with scissors when sufficient wound.

maker-up; bolter (Chebriek), trimmer (silk trade); makes up piece goods or yarns in bundles or packages for despatch or for storage; often further distinguished according to class of goods made up, e.g., smallware maker, twist maker-up.

maker-up, bundle (yarn); bundler, knorter, knut tier, press bandler, yarn maker-up; makes up into bundles hanks of yarn and secures them by knitting one bank round rest; is responsible for selecting yarn, for quality of yarn sent out, for rejection of bad yarn, and for parceling and stamping.

bottler; fills bottles, by hand or machine, and passes them forward for labelling; sometimes also inserts cork or stopper, and seals it; often further distinguished according to article bottled, e.g. blacking bottles, scent bottles, sweet bottles.

box dresser; lines cardboard boxes with paper; labels box, and attaches lace paper edging.

boxes, box-maker; box hand, folder (overall); packs goods in wooden or cardboard boxes; for additional work also performs as packer; often further distinguished according to article packed, e.g. shirt boxes, hosiery boxes (or box hands), metal polish boxes, cf. boxer, chocolate.

boxer, chocolate; boxes finished chocolate in layers, between sheets of paper, or in rows separated by paper wrappings.

box filter (artist's colours); places colours, tubes and pans of colour into artist's colour box; places labels on to indicate colours; puts in brushes, palette, bottle of linseed oil, and dippers, i.e. pans for mixing colour; wraps box in paper and places in cardboard carton.

box hand, see boxer; often further distinguished according to article packed, e.g. blue box hand, polish box hand.

brander (case making), case brander; brands names and designs, on cases, cases barrel heads, unmanufactured case boards, etc., (i) by furnace-heated treadle-operated, branding machine; places barrel head, etc., on heated press plate and depresses treadle; feeds furnace with waste wood, etc.; (ii) by gas-heated, belt-driven, gummed-branding machine; places case boards in magazine, admits machine to take required size of boards and starts-up machine so that boards pass through automatically.

bright worker; counts fish books into packets and wraps them up.

bundler; (packs and wraps) counts sacks or bags into bundles of specified size; sometimes combines this with work of tier, e.g., (paper and board making) as for packer.

bundler's second hand, see tier (iron strip or hoop).

capper; a packer, e.g. who puts caps on lids or cartons of liquid blacking, metal polish, etc.; usually also tightens cap, although this is sometimes done by cap tightener, e.g. cap tightener; a packer, e.g. who screws lids on bottles of metal polish, etc.

carder; ties, stitches, strings, or otherwise fixes articles on cards for retailing; often further distinguished according to article carded, e.g. comb carder, book and eye carder.

case (files, saws), as for wrapper.

case, tin case (tinplate works), as for boxer.

closer (hoof polish); see lifter.

cloth sticker (needles); gathers needles in band clamp and sticks points into a piece of cloth attached to paper wrapper.

compressor, as for labor.

counter (bolts), see bagger-up.

counter girl (tapes, etc.), as for laborer.

coverer, pot, see finisher, jam.

dosener, boot lace; makes up boot or shoe lace into bundles of a dozen pairs, and secures them with twine.

emballer, see wrapper.

filler; fills bags, tins, boxes, bottles, cartons, etc., by hand or machine, with finished articles for sale; sometimes specifically designated according to nature of article or of receptacle, e.g. bag filler, blacking filler, box filler, case filler, metal polish filler, packet filler, etc.

filler, box filler (tea); places finished matches into inners of boxes by hand, and pushes filled inners into box cover; sometimes done by slider (see, cf. nesting hand (matchbox) 999).

filling machine attendant; a filler, e.g. attending a filling machine; places bottles, etc., on tray and tray into

position on endless belt feed; regulates flow through filling nozzles and keeps these clear of obstruction.

finisher, box; (cigar trade), see laborer.

finisher, jam; pot coverer, pot packer, topper and wrapper; labels jams, etc.; tins, particularly covers top of jars or bottles of jam, cf. tier, jam; sometimes also does work of wrapper, e.g.

finisher, lead; general term for any worker engaged in boring, labelling, and, perhaps, black lead.

feller, see trimmer, sometimes specifically designated, e.g. typewriting fold feller.

folder (overall making trade), see boxer.

gimping machinist; moulder (lines); places small linen patterns on bed of gimping machine and turns handle so that edges of cloth are gimped (pinked) by cutting rollers, to prevent fraying; arranges number of patterns and mopsis in appropriate position, using wire, metal fasteners, etc., on pattern card.

gluer (photographic plates); packs-in-brass; wraps boxes of plates in paper, and glues paper in position.

golfer, ball, weight and wrapper; weighs finished golf balls to ensure that none exceeds maximum weight; wraps them in paper, and places them in cardboard box.

hooper, case hooper, iron hooper (packing cases); hooper of packing cases; binds shable iron bands round packing cases, and makes them fast by nailing them to case.

hosiery layer; folds finished garment, wraps it in paper and places in box ready for despatch, if necessary, in sets, or in less necktie round collar.

label boy; labels goods for despatch under direction of packer, e.g.

labeller; box finisher (cigar trade); affixes labels either to goods themselves, e.g. rods, bundles of tape, bundles of pencils, or to tins, boxes, cases, cartons, casks, jars, etc., containing goods; sometimes fills in particulars on label, or addresses blank label before attaching; sometimes also does wrapping up and tying; sometimes specifically distinguished according to article labelled, e.g. bobbin labeller, bottle labeller, metal polish labeller, sheep dip labeller.

labeller (nerated waters, beer, etc.); takes bottles from rack and places in case; if labelling machine connected with bottling plant; moves lever controlling automatic feed of labels and damping and fixing apparatus; removes labelled bottles and replaces in rack.

labeller (matchbox); winds machine which automatically feeds cut pieces of wood to form, respectively, inner match box and outer cover, and which pastes blue paper on inner side and label on cover; inserts into machine spools of paper as required, fills match box and presses cut wood into slide feed.

lapper, see wrapper.

lapper-up (cutlery); passer, wrapper-up (cutlery); wraps finished cutlery in waxed paper and acts as final passer, returning defective articles for correction.

lifter (hoof polish); closer, topper; puts lids on tins, cartons, etc., by hand, after they have been filled, by lifter, box (margarine); lines wooden boxes with grease proof paper, and helps generally in packing of margarine.

liner, packing case; lines packing cases with paper or other material, usually merely placing sheets of paper in case; normally done by packer, e.g., cf. liner, packing case (sheet metal) 384.

looker-up (boot and shoe trade), see maker-up, machine attendant (tea packing); tea wrapper; attends machine which automatically weighs tea, fills and labels packets for retail sale; inserts

paper rolls into machine for cutting into wrapper shapes, and labels, and replenishes paste troughs used in sticking-on labels to packets, cf. packer, tea.

maker-up; looker-up (boot and shoe);

(i) puts together articles required to complete an order; or makes up standard quantities of pens or other articles, and puts them in small boxes, or other light coverings, ready to be packed in cases; or puts finishing touches to an article, to prepare it for sale; (ii) general term to cover workers making up and packing goods, e.g. boxer, packer, wrapper.

maker-up (felt hats), see packer, light.

maker - up (handkerchiefs); puts finished handkerchiefs in bundles of twelve; ties them up; presses them in a hydraulic press, ready for parceling; sometimes also ornaments them (see ornament) and boxes them.

marker, bag marker, bale marker, box marker; marks bales, bags or boxes with sticks or stumps, indicating nature of contents, destination, etc.; cf. stenciller.

marker for branding cases; places chalk or other marks on cases, indicating weight of contents, destination, etc., in preparation for branding.

moulder (hoes); sticks labels on packets or boxes of hoes.

moulder (lines), see gimping machinist.

nailer, box nailer; box sealer; nails lids on wooden boxes or cases, either by hand or, when operating a power-driven nailing machine, by placing box beneath plunger and depressing treadle lever; cf. packer.

nailer-up (galvanized sheets); nails up packets of galvanized sheets, and secures them with metal strip.

neater (cardboard boxes); puts finished cardboard boxes one inside another, ready for despatch.

ornament (handkerchiefs); examines, counts, and folds handkerchiefs; ties them up in an attractive manner, ready for boxing, and tuckering; sometimes also puts them in fancy boxes and tickets them.

overlooker, cigarette packing machine; is in charge of a number of machines operated by cigarette packing machine attendants, e.g. makes necessary adjustments to machines.

packer; (i) wraps small filled containers (tins, jars, bottles, etc.) in paper, and labels them; (ii) places goods in bales, barrels, boxes, cases, cartons, crates, or other receptacles, adding, if necessary, straw, sawdust, wood wool, or other shock-absorbing material; secures bale, case, etc., by nailing, cording, or other means; sometimes also brands or marks cases, or performs other secondary procedures thereupon; sometimes specifically designated according to class of article packed, branch of industry, or method of packing, e.g. case packer, cop packer, export packer, chocolate packer.

packer (baking powder); places empty tins for filling on a belt which carries them automatically into packing or filling machine; or removes filled tin after they have passed under office of machine; sees that machine is running correctly and remedies any slight defects; cf. filling machine attendant.

packer (biscuits); arranges biscuits in tins, according to definite pattern; inserts sheets of paper, where necessary, to separate different kinds or layers of biscuits.

packer, butt; a packer of butts, i.e. a superior quality of leather; stacks leather into piles and reaps-up; or places in canvas wrapper and stitches together; wraps up ends; sometimes also packs off; cf. packer, offal.

packer (clog soles); recovers from office staff, list of items for clog soles; selects soles in pairs, fastening them together by nailing to a strip of leather; puts out these leather strips; packs soles in bags, labelling latter with sizes of soles therein.

packer, cop; packs cops, i.e. yarn wound on cardhooks, etc., tubes, in skips and cases; delivers and weighs singly skips, etc., examines ticket on set of cops before packing, to see that quality and fineness of yarn are correctly described, and enters particulars of size and weight of packed cops in notebook for wages purposes; works in paper and makes-up skip for despatch after packing.

packer, egg; opens cases of eggs, and examines for breakages, etc.; sometimes inspects eggs against electric or other light to eliminate bad eggs; repacks eggs into new cases, with fresh wood wool.

packer, farman; hand packer, leading packer; is in charge of packing department, directs packers and loaders *q.v.* and is generally responsible for packing and despatch of goods.

packer (grain milling); minds machine which fills bags with weighed amount of meal or flour; fastens each mouth to machine chute; moves lever to start-up machine; removes filled sack, ties-up and stacks; occasionally checks weight of filled sacks.

packer, floor (grain milling) (448).

packer, hand, see packer, foreman.

packer-in-brown, see gluer.

packer, leading, see packer, foreman.

packer, lights (felt hats); maker-up (felt hats); covers hats with paper and packs in cartons, for placing in stock, or, for packing by rough packer *q.v.*

packer, margarine; (i) slices, blocks, or rolls margarine by hand; weighs, papers and boxes it, or is employed interchangeably on one or more of above operations; (ii) puts margarine with a wooden shovel into a packing worms turning inside machine, which also push margarine out in required form (½ lb., 1 lb., etc., lumps, rolls or blocks); (iii) packs margarine in large quantities, in bulk packing room.

packer, offal; (i) (leather) a packer of waste and low grade leather; *cf.* packer, butt; (ii) (milling) a packer of bran and other offal; fastens sack to chute from offal container (oppressor), moves lever to allow offal to fall into sack; stops flow of offal when sack filled, removes and weighs sack to ensure correct amount therein, ties-up and stacks sack.

packer, pot, see finisher, jam.

packer, rough (felt hats); receives cartons from light packer *q.v.* or from warehousemen (940) *q.v.* and packs them in crates.

packer, tea; tea weigher; one of two workers who weigh tea for retail sale (i) folds paper into packet form, leaving an end open; inserts under nozzle of chute automatically fed from scale pan which tips when correct weight of tea contained therein; (ii) folds-down open end of filled packet and pastes-on label by hand, using paste brush; *cf.* machine attendant (tea packing).

packer, textile; arranges textiles, clipped and sorted, in layers in wooden boxes for despatch to cloth manufacturers.

packer (wallpaper); (i) (usually male) operates a machine which compresses cylindrical bales of paper; places paper in machine, feeds leather bands round paper and either works lever in a skated wheel or tightens handle round paper, *cf.* start-up machine to effect, tension; passes steel hands round compressed bale, using hand tool and removes bale from machine; (ii) (usually female) stitches compressed bales of paper in sackcloth.

packer (wholesale tailoring); receives garments from workrooms; sorts them into bundles of similar garments, sizes, etc., marks them, and despatches them to destination.

packer-and-staker (clozes); packer-labourer; places cloze in racks, according to size, for storage; packs cloze for transport; sometimes combines this with work of polisher (429) *q.v.*, and of clasper (439) *q.v.*

packer-hooper (tinplate); packs sheets and blackplates in bundles, binds round with iron hoops, links ends of hoops and hits flat with hammer.

packer-labourer, see packer-and-staker.

packing machine attendant, cigar-ethn attend automatic cigarette packing machine; feeds packing machine with cigarettes or with cases, labels, or shells and slides or places papers, when filled, in boxes.

paper dresser; a wrapper-up *q.v.* engaged in wrapping cotton piece goods. **paperer;** wraps goods in paper, usually in preparation for subsequent packing in boxes, cases, or other substantial coverings; sometimes specifically designated according to class of goods packed, *e.g.* clay tobacco pipe paperer.

paperer, book to gut; places fish-bones, or gut, in wrappers and envelopes.

paperer, tin; lines tin with oiled paper, in preparation for packing; sometimes also assists in packing.

paperroller; makes up goods, usually already wrapped, into parcels for despatch; usually in retail quantities or in quantities not requiring packing in cases, etc.; sometimes specifically designated, *e.g.* black lead paperroller, blue paperroller, lead paperroller.

paperer, see lapper-up (cutlery).

pinner, label; sheet label pinner; threads a number of printed sheets of labels over two pins, willing hole on each side of each sheet, hands sheets thus threaded to guillotine cutter (558) who is thus able to cut labels in true alignment for use in blue, starch, etc., packing.

paperer, paper; pressman (waste paper); as for baker.

putter-up (hosiery); as for tier-up.

putter-up (wool); engaged in wool stapler's warehouse; puts-up wool into canvas wrappers, by suspending canvas at corners from a beam, tread-down raw wool in centre of canvas, pulling wrapper tight and temporarily fastening with two-sided hook, sewing-up canvas and removing hook.

roller (plum), pin roller; rolls up sheets of finished pins, after they have been stuck by pin sticker (279) *q.v.*

rocker, roller-up (tapes, etc.), see blacker, roll.

roper; binder, binder-up; secures coiled ropes by passing thinner rope through centre and round outside of coil, and then fastening.

sample maker (handkerchiefs); collects, arranges, folds, tickets, and packs or sews into box, handkerchiefs intended for samples.

sealer, box, see nailer.

sealer, patrol can, see wiper and sealer.

sealer-out (polish, etc.), see tray layer.

shaker-in (steel pens), as for boxer. **slider (matchbox);** receives boxes, filled with matches by box filler *q.v.*, and slides or pushes them into covers made by slide machine attendant (498) (*q.v.*).

sprinkler putter-in, see tipper.

stamper, box, as for marker, bale.

stamper, machine; puts goods in position in a hand-stamping machine, and moves levers, thereby bringing down stamp and affixing trade mark or other distinguishing mark to goods; fits into position, screwing, unscrewing, etc., dies, as necessary. **stencil, box stenciler, as for marker, bale.**

stitcher, bale; sews up overlapping joints of canvas wrappers of bales, with packing needle and twine.

stitcher-up (yarn); stitches up canvas lining of skips which have been packed with yarn.

straw boy (pottery); assists packer (944) *q.v.* by placing straw between articles to be packed, and by pinning ware in convenient position for packer.

straw pad maker; a packer q.v. who makes flat pads of straw covered with paper for use in protecting woodwork, metal frames, etc., from damage in transport.

stringer; handles press bandler (943) *q.v.* on banding press by tying up bundles.

stripper; puts paper strips round tins or blocks of boot polish, black lead, blue, etc., as for bander; sometimes specifically designated, *e.g.* blue stripper.

tahhar, hosiery, as for labeller.

tambourer; (Turkish term); rolls up delicate wool, silk, etc., cloth on tambours, i.e. wooden frames covered with paper, places tambour in holders in winding machine, wraps end of cloth and paper wrapping round tambour and switches-on power drive so that cloth and protective wrapping are wound simultaneously; *cf.* tambourer (Lancashire) (407).

taper, taper-up; puts tape round made-up textile goods (sheets, pillowcases, etc.) or after making of them, for despatch; so as to hold them together and to avoid creasing.

thresher-up, see wiper (clog rears).

ticker, ticket tacker, as for labeller; sometimes specifically designated, *e.g.* bobbin ticker.

tier, tier-up; puts up goods in preparation for despatch; work closely similar to that of paroller or of wrapper *q.v.*; sometimes specifically designated according to article tied, or nature of packing, *e.g.* bag tier, bale tier, firewood tier, ream tier, shirt tier-up, etc.

tier, bag-blue; packs blocks of blue in calico bag; places calico into mould, inserts hane, gathers calico to form bag and ties ends of bag with string. **tier, cork block;** sticks tin gutted fish-bones in a cork, for foreign markets, and ties shank ends together with twine.

tier (iron strip or hoop); handler's second hand; ties up bundles of scrap with wire after folding, in iron or steel strip or hoop mail, for return of metal to melting furnace.

tie, jam; put tier, jam (topper); ties tops and wrappings on bottles or jars of jam with string.

tilleter; wraps textile piece goods in tillet cloth (a special glazed waterproof cloth) for export to certain foreign markets; wraps canvas outside of tillet, secured by sewing, tinfolier; roller; wraps cocoas, chocolates, liquors, etc., in tinfall, by hand or by feeding, and watching working of automatic machine; sometimes specifically designated, *e.g.* chocolate, cocoa, liquorice, type-wrapping, ribbon tinfallier.

tipper (black lead, etc.); sprayer putter-in; puts perforated metal cap inside neck of tin bottle containing black lead or other similar goods, in liquid or powdered form, to facilitate sprinkling.

topper (boot polish), see ladder.

topper, jam, see tier, jam (topper); ties tops and wrappings on bottles or jars of jam with string.

topper and wrapper (jam), see finisher, jam.

tray layer; seifer-out (polish, etc.); arranges empty tins on trays, which are conveyed by endless band under nozzles of polish filling machines; sometimes done by filling machine attendant *q.v.*

trusser, see baler.

tucker; folds and closes up packets of needles by tucking in ends of wrapping.

warehouseman (rough), see hagger-up (boite).

weigher, *tas*; (i) *see* machine attendant (*tea packing*); (ii) *see* packer, *tea*.

weighman, *alum*, or *for packer*.

wirer (slag iron); *threder-up*; ties up clog irons in six-pair bundles, with wire, for storing or for despatch.

wirer and sealer (tins): petrol can sealer; wires up, by hand, cans of petrol, benzene, etc., and seals them by affixing a metal seal on wire and cap.

wrapper, *wrapper-up*, *wrappas*; embosser, *wrapper*; (i) wraps goods (by hand or machine) in paper, tinfoil, or other light protective covering, ready for packing in cases, etc.; or in more substantial coverings, ready for immediate despatch; (ii) wraps cycles, tyres, framework of beds, etc., in paper, tarred rope, or other protective covering, to prevent damage in transport; (iii) (matchbox) wraps boxes of matches, in dozens, in a wrapper, and pastes wrapper to seal package; (iv) (civvy) *see* lappper-up (civvy); (v) (jewellery) wraps pieces of jewellery in tissue paper and puts it in case, usually velvet-lined, ready for despatch; sometimes also wraps case in paper; sometimes specifically designated according to class of article, e.g. black lead wrapper, cake wrapper, chocolate wrapper, cap wrapper, etc.

wrapper-and-boxer (umbrella); wraps umbrella or parasol in paper, and boxes them; sometimes also does work of umbrella looper (4229) *q.v.*

ORDER XXX.—STATIONARY ENGINE DRIVERS, DYNAMO AND MOTOR ATTENDANTS.

950.—STATIONARY ENGINE AND CRANE DRIVERS.

serial ropeway controller; controls serial ropeway, used for conveying stone, ore, etc., about a mine or quarry, by moving lever connecting mechanism with steam engine; sometimes also Stokes bellows and controls steam pressure valves; moves clutches connected to winding shafts to control winding operations; *cf.* electric conveyer driver (954).

air compressor or compression attendant, *air compressor* or *compression man*; as engine attendant *q.v.* in charge of power-driven air compression plant, used for power transmission, for driving machinery or working pneumatic tools; controls machinery, for regulating supply of petrol, electric current, etc.; reads compression gauge; regulates speed of running machinery to maintain pressure evenly at required level; cleans, lubricates and regulates oil feed, renews piston rings and does other minor repairs; sometimes also does other incidental work, e.g. for road drill compression plant, has charge of drills and hose; on very large plant, may be a charge hand, with several assistants or attendants working under him.

air pump attendant (sugar refining); a pump attendant *q.v.* in charge of vacuum pump, used for drawing away steam from sugar boiling pans, to reduce boiling point; also reads vacuum gauges and regulates speed of pumps; work sometimes done by engine attendant *q.v.*, in charge of other machinery besides air pump.

alternator attendant; attends a number of alternators, i.e. machines generating an alternating current of electricity of high voltage; *cf.* engine attendant (electric generating room).

apparatus man, apparatus engine-man; screens engine-men, screens motor man; an engine driver *q.v.* in charge of engine which works

machinery used to raise coal from one level to another for screening purposes.

assistant blast engine man, *blast engine driver* (iron and steel); assists blowing engine man *q.v.*; feeds engine, fills lubricating cups, sees to working of oil feeds and does other similar work under direction of blowing engine man.

assistant turbine driver; junior turbine driver. Former driver's assistant; a learner employed in works engine room or electrical generating station, where turbines are installed, training to become a turbine driver *q.v.*; does all machinery and other general work, gradually advancing to greater responsibility; takes place of turbine driver at intervals; learns to take charge of plant connected with turbines, e.g. blowers, fans, switchboard, feeders.

auxiliary plant attendant; has control of auxiliary plant, e.g. pumps, in a power house, factory, etc.; cleans, oils and greases plant, examines working parts from time to time and does minor repairs.

bell engine man; in charge of an engine and winch used for raising a ball to be released at a certain height for the purpose of breaking up scrap iron by impact; applies power drive (electric or steam) and operates clutch lever which engages ball, raises to desired height and releases it; sometimes also Stokes boiler fire, reads steam gauges and regulates head of steam.

blast engine man, *see* blowing engine man.

blower (stone quarries), *blow engine man* (coal mines); an engine attendant *q.v.* in charge of engine which works ventilating plant supplying air to mines and quarries.

blower man, blower house man (gas works); (i) an engine attendant *q.v.* in charge of blowing plant (usually electrical) which causes gas to be forced at any required pressure into any or all gas mains running from gas works; observes pressure meter readings and adjusts valves accordingly; (ii) *etc.* oil gas engine room attendant.

blowing engine man, blowing engine driver, blowing engine tender; blast engine man; an engine driver *q.v.* who attends to blast engine and plant, for blowing air into blast furnaces and converters in steel works, or for driving blowers and fans.

brakesman, *engine*, *see* *winder*.

captain attendant; an engine attendant *q.v.* operating a power-driven capstan.

coal breaker engine man, *crusher engine man*; an engine attendant *q.v.* who drives engine used for crushing coal, at coal mine, cokery plant, or gas works.

coal conveyor attendant (gas works); attends to plant (usually electrically-driven) inside retort house, conveying coal from outside conveyors to hoppers of gas retorts; switches on power-drive motor and conveyor, pulls open slide over each hopper to allow coal to fall through, pushes slide back when hopper is full; moves friction switch in and out causing conveyor to move backwards and forwards as desired, coal falling into hoppers automatically.

coal plant attendant; (i) attends to electrical band conveyor outside retort house, where coal is dumped by derrickman *q.v.*; switches on or off power-drive, and greases wheels of conveyor when necessary; attends to coal crushing drum, switching off power to stop conveyor when both of crusher become choked with coal; (ii) in steel-driven plant, starts and stops conveyor by means of levers connected with steam engine; sometimes also fires, cleans and generally attends to boiler of engine; *cf.* coal conveyor attendant.

cold storage engineer, *see* engine attendant (cold storage).

compressor, compressor attendant, compressor driver, compressor man, *as for air compressor attendant*, but the compression may be applied to gas, etc., instead of air.

convoyer, *convoyer*; conveyor attendant; traverser driver, an engine attendant *q.v.* who attends to engine or motor which drives conveying plant, i.e. an endless belt, chain of buckets, for conveying material from quarry, fuel to furnace, etc.

crabber, *see* winch attendant.

crane cleaner; cleans, oils and greases cranes, tightening rivets, etc.

crane driver, crane man, crane engine man, crane tender, crane hoister, crane attendant; operates overhead travelling, or other cranes for hoisting, loading, unloading, or moving material in workshops, mines, quarries, wharves, etc., or on construction work; controls levers which bring into action gears for winding and unwinding crane-cable round drum, for raising and lowering crane arm, for turning crane, and in some cases, for propelling crane along crane platform; Stokes steam boiler and maintains steam pressure by aid of gauge, or controls fuel or power supply, according as the crane is driven by steam, petrol, electric, or other power; often specifically designated according to type of crane or purpose for which used, e.g. electric crane driver, hydraulic crane driver, steam crane driver, tip crane driver, crane driver, loco; a crane driver *q.v.* who operates a combination locomotive crane for shunting wagons and lifting material.

crane man, *engine*; a crane driver *q.v.* who operates crane carrying ladle into which metal is run from Bessemer converter in steel works.

cransman, *basin action*; soaking pit cransman, *winder-up*; a crane driver *q.v.* who operates power crane for lowering steel billets or blooms into heating or "soaking" pits and raising them therefrom when they have been heated to temperature required for rolling.

cransman, pit; a crane driver *q.v.* who operates crane for conveying pig iron from pig bed to pig breaker or to store.

cransman, pithead; a crane driver *q.v.* who operates crane for all lifting work in connection with casting pits (in steel manufacture); places ladles in position to receive molten steel when converter or furnace is tapped, and moves them from mould to mould in pit as directed by power (183) *q.v.*

cransman, soaking pit, *see* "crane man, heating pit."

crusher engine man, *see* coal breaker engine man.

eyelone extractor, *see* tar extractor.

derrickman; a crane driver *q.v.* operating a derrick, i.e. a crane with an arm which can be moved in any direction, often also fitted with self-acting grab, steam or electrically-driven, used for picking up coal, etc.; controls power-drive of derrick (*see* crane driver) and directs movement of arm and hook of levers; greases and cleans derrick.

dip engine man, dock engine man; an engine attendant *q.v.* who drives engine operating a cable ropeway or other apparatus for drawing minerals out of a dip coal or "dock" in a mine; *cf.* incline engine man.

donkey engine man, donkey engine driver, donkey man; an engine attendant *q.v.* in charge of a donkey engine, i.e. a small auxiliary engine, not supplying main motive power but generally fed by steam from main boilers; by moving levers, clutches, etc., connects donkey engine with capstans, hoists, aerial ropeways, etc.; sometimes also has charge of other machinery.

donkey man, shore; a donkey engine man *q.v.* employed at a dock, wharf, etc.; *cf.* donkey man (736).

donkey pumpman; **feedman**, an engine attendant *q.v.* who attends small auxiliary engine which drives boiler feed pump.

doek engine man, *see* dip engine man.

driver (engine), *see* engine attendant.

endless rope engine driver; a haulage driver *q.v.* who attends to engine working drums of endless rope haulage system in coal mine.

engine attendant, **engine driver**, **engine man**, **engine master**, **engine tender**, **engine tender**, **power engine man**, **stationary engine driver**; **driver (engine)**, **engineer**; controls stationary engine by moving lever which switches on power-drive, by turning tap or valve which controls gas or oil supply or supply of hydraulic power or other means; watches gauges, indicating steam pressure, or other power-unit generated, regulates engine's speed of running; cleans and oiled engine by hand or file lubricating cups, seeing that oil feed apparatus is working correctly; sometimes also cleans, oiled, and generally attends to plant running in connection with stationary engine, *e.g.* fans, pumps, compressors, etc.; usually does minor repairs, *e.g.* fitting new piston rings or gudgeon pins, sometimes capable of overhauling and doing heavy repairs; sometimes specifically designated, *e.g.* electric engine attendant, elevator engine man, gas engine attendant, hoist engine man, hydraulic engine man, lift engine man, rolling mill engine driver, stamping engine attendant, stamping engine driver (pulverising ore), ventilating engine man.

engine attendant (cold storage); cold storage engineer; (i) electrical plant starts machine by putting in main switch and working handle of rheostat; opens valves; reads gauges, stops and starts sections of plant to maintain even running of plant and cleans plant; controls flow of ammonia to maintain temperature in storage chamber; remedies minor irregularities or repairs minor breakdowns; (ii) (steam plant) attends to steam engines and compressors, and directs stokers (561) *q.v.* open valves to start engine; starts condenser and vacuum pump by operating various inlets and exhaust valves, regulates compressor by adjusting ammonia valve and opening steam valve; oils, etc., as above.

engine attendant (electric generating room); an engine attendant *q.v.* in charge of stationary engines or turbines generating electrical power for lighting works and driving machinery, also of switchboard controlling distribution of power; manipulates switches to equalise load between dynamos; attends to feeders supplying current to different parts of the works and other units; cleans and lubricates machinery under his charge.

engine cleaner; engine worker; cleans, oils, and greases stationary engines.

engine driver's assistant; assists engine driver *q.v.* and takes charge of engine in his absence; under engine driver's orders, controls supply of fuel or feeds to engine, scrutinises gauges, fills lubricating cups, etc., and stands by to assist driver by handing tools, etc., in case of breakdowns; is responsible for cleaning parts of stationary engine.

engineer (engine attendant), *see* engine attendant; sometimes specifically designated, *e.g.* hoisting engineer, steam engineer, woolen engineer.

engineer (acetylene gas plant); controls and operates gas engine or electric motor used for driving compression pumps; oils, cleans, and, if necessary, does minor repairs to compression pumps and to gas engine or electric motor used for driving pumps; regulates power to maintain even pressure in charging pipes.

engine worker, *see* engine cleaner.

exhaustor driver, **exhaustor engine driver**, **exhaustor man** (gas works); an engine attendant *q.v.* in charge of engine driving exhausters or gas pumps, used to draw gaseous products from reborts and through condensers, and to drive it through rest of cleaning apparatus, *i.e.* washers, scrubbers, purifiers and sulphuric acid extractors, to gas holder; starts and stops engine; reads gauges and regulates valves; oils and cleans plant.

fan engine driver, **fan engineman**, **fan attendant**, **fan driver**, **fan man**; an engine attendant *q.v.* in charge of engine-driven fans used for ventilation in mines, etc., for supplying forced draught to boilers or other purposes; oils and cleans engine and mechanism; sometimes also stokes boiler fires and sometimes has charge of engine plant; *cf.* electric fan attendant (554).

feedman, *see* donkey pumpman.

gantry drop man, **gantry engine man**, **gantry lift man**, **gantry man**, **gantry man**; controls and operates engine (electric or steam) supplying motive power to gantry crane or transporters in steelworks, iron-works, etc., principally used at steel works for loading furnaces with coke, lime, metal, etc., or in shipyards, docks, railway sidings, for lifting trucks or other heavy articles; is usually an experienced crane driver *q.v.*

gas drawdown (iron, steel works); a winch attendant *q.v.* in charge of winch or gear for drawing out blooms from reheating furnaces.

grab driver; a crane driver *q.v.* who operates and controls a crane electric, steam or hydraulic) equipped with a grab for lifting coal, etc.

grain elevator attendant; an engine attendant *q.v.* who attends to grain elevator; oils, cleans and greases it, when necessary.

haulage driver, **hauling engine driver**, **hauling engine attendant**, **hauling engine conductor**, **hauling engine man**, **hauling engine taster**; **taker-up**; an engine driver *q.v.* who attends hauling engine which draws minerals, in mines and quarries, along engine planes from workings to bottom of shaft, or by drift to surface.

hoist brakeman; a hoist driver *q.v.* who operates hoist at blast furnace used for conveying loaded barrows of coal, coke or iron ore from bottom to top of furnace and for bringing back empty barrows.

hoist driver, **hoist man**; operates a hoist used for raising and lowering luggage, merchandise, materials, or other goods, as distinguished from passengers; oils, cleans and greases hoist when necessary, but usually does not repair breakdowns; *cf.* hoist man (757).

hot bank crane-man; a crane-man *q.v.* who stacks finished product of iron and steel rolling mill, while still hot, on banks or stages, using tower crane.

incline engine man; in charge of engine supplying power for hauling minerals, rubbish, etc., up, or lowering them down, an incline (inclined shaft) at a mine, quarry, brickworks, etc., usually by means of an endless rope.

junior turbine driver, *see* assistant turbine driver.

kila engine driver; drives, oils and attends to engine driving revolving gear of kila in which charcoal is re-fired or re-charred for further use; sometimes done by leading hand (char house) (442) *q.v.*

laundry engineer; **stoker-engineer (laundry)**; operates and controls engine supplying power to machinery in laundry; reads pressure gauges, keeps steam pressure steady at required level; cleans and oils machinery; changes driving belts and does other minor repairs; in smaller laundries, also acts as boiler man (361) *q.v.*; *cf.* laundry engineer (244).

loopholeman (aerial ropeway); is stationed at loop or bend of an aerial ropeway and controls aerial ropeway controller *q.v.* by pushing, etc., carriers containing stone, ore, etc., round loop at end of aerial ropeway, if they stick.

marine bell attendant; an engine attendant *q.v.* who drives engine machinery working suction pipe or grain elevator, *i.e.* marine bell for unloading grain from a vessel.

mill engine man; (i) an engine man *q.v.* in charge of power engine of a mill; (ii) driver who attends to engine which supplies motive power to "cogging" mills, "finishing" mills, or other machinery of iron and steel rolling mills.

navy driver, **steam navy driver**; **steam excavator driver**; an engine man *q.v.* working a "steam navvies" which diggers or "steam shovel" which digs out clay, sand, gravel, chalk, etc., and loads it into wagons, oil gas engine room attendant; blower man, blower house man (gas works); an engine attendant *q.v.* in charge of turbine driving fans which blow air into furnaces used in the manufacture of water gas or oil gas; sometimes also attends to subsidiary plant, *e.g.* pumps; *cf.* pump attendant, starts, stops, cleans, regulates and oils plant; sometimes also does minor repairs.

pump attendant, **pump driver**, **pumper**, **pump house attendant**, **pump man**, **pumpman**, **pump minder**, **pump tender**, **pump engine man**, **pumping engine driver**, **pumping engine man**; an engine driver *q.v.* in charge of power-driven pump; controls power drive (petrol, electric or driving belt) and repairs pump rings and does other minor repairs; examines reading of vacuum gauge, regulating speed of pump to maintain vacuum at required depth; sometimes further designated, *e.g.* electric pump attendant, electric pump man, sewage pump attendant, vacuum pump driver.

pump driver (vacuum cleaning); a pump attendant *q.v.* who stands by electrically, petrol- or steam-driven vacuum pump used in vacuum cleaning, sets in motion or stops action by means of a lever; watches pressure gauge to maintain correct pressure to ensure vacuum.

acetylene engine man, **acetylene motor man**, *see* apparatus man.

skip engineman; an engine attendant *q.v.* in charge of power-driven machinery used for propelling skips containing pig iron, scrap or other materials to and from furnaces in iron and steel works.

slag ladle engine man, **slag loco driver**, **slag loco man**; an engine man *q.v.* in charge of engine which supplies power for moving ladle containing slag (in iron or steel works).

steam excavator driver, *see* navy driver.

stoker-engineer (laundry), *see* laundry engineer.

taker-up, *see* haulage driver.

tar extractor, **tar spray pumper** (gas works); **gysone extractor**; an exhaustor driver *q.v.* operating and controlling a pump for driving gases generated in coke ovens through iron pipes to cooling and condensing chambers, where first stage in process results in condensation of tar.

universal driver, *see* conveyor driver.

turbine driver, **turbine engine man**; opens steam or water valve to start turbine, adjusting steam, water and oil regulators until turbine work smoothly; watches vacuum and water pressure gauges and other automatic devices; sees that bearings are not overheated; sometimes does minor repairs, *e.g.* a pump for driving gases generated in coke ovens through iron pipes to cooling and condensing chambers, where first stage in process results in condensation of tar.

turbine driver's assistant, *see* assistant turbine driver.
 tyre man, tyre pump attendant; a pump attendant *g.v.* who starts, stops, cleans, greases, and generally supervises pumps which force cold water rapidly and continuously through water jackets of turbines in a blast furnace and drive hot water into condensers, cooling towers, and spraying tanks, and so maintain circulation of water through system.
 washer engine man; an engine attendant *g.v.* in charge of engine used to drive machines for washing coal, crushing engine drivers, who wash and clean it; clears coal jams and does other incidental work in connection with plant.
 water wheel driver, water wheel attendant; opens and closes, by means of governor, inlet valve which controls flow of water through wheel; or opens and closes sluices by means of wheel or lever; cleans and greases gear and shafting of water wheel; often also operates and controls plant, *g.v.* circular saw, driven from water wheel.
 winch attendant, winch driver, wincher, winchman (steam), winchover; an engine man *g.v.* who operates and controls engines driving power winches or derricks used for hauling or lifting heavy weights in mines, steel works, shipyards, docks, factories, etc.; cf. winch, winchman (359), winchman (730).
 winder, engine winder, winding engine driver, winding engine attendant, winding engine man, winding brakeman; engine brakeman; an engine driver *g.v.* in charge of winding engine at surface of mine or quarry, used for raising or lowering workmen, minerals, timber, etc.; when "all clear" is given, pulls lever, causing cage to move up or down; watches gauge showing position of cage, and regulates speed of ascent or descent; applies brake gradually, preventing excessive strain on winding cable as cage stops; is responsible for safety of workers in cage during winding.
 winder-out, *see* crane-man, hoisting pit.

961.—BOILER FIREMEN AND STOKERS.

assistant stoker; stoker's assistant; removes slag and clinker from sides of furnace, by raking or scraping; removes riddings, and assists stoker generally.

boiler blower (blast furnace); opens and closes valves to regulate flow of hot exhaust gases from blast furnace to boilers; if supply of exhaust gas is not sufficient, lights and attends to coal gas firing apparatus.

boiler charge hand (gas works); in charge of all main stationary boilers in gas works, supervises boiler firemen *g.v.*; is responsible for maintenance of steam pressure, stoking of boiler fires and cleaning of boilers.

boiler attendant, boiler fireman (stationary engines), boiler fire, boiler man, boiler minder, boiler stoker, boiler tender, engine fireman, engine stoker, firehold man, fireman (boiler), fireman (stationary engine), fire, fire tender, furnace man (boilers), furnace stoker (boilers), steam boiler attendant, steam boiler man, steam raker, stoker (boths, boilers, engines); fire breaker; stokes fires which heat boilers used for raising steam to drive engines, pumps, etc., for heating baths, steam coils, etc., for steam brush cleaning, etc., or for use in making water gas; also water supply to boilers and maintains steam pressure; usually also rakes out ashes.

boiler man, acid boiler man, sulphuric acid boiler man; a boiler fire-

man *g.v.* who feeds and attends boilers which supply steam to leaden chambers used in manufacture of sulphuric acid.

orange engine boy (quarries); stokes boiler of crane, also signals to driver for raising or lowering.

firebeater; (i) *see* boiler fireman; (ii) *see* fire raker.

fireman, dust destructor; a boiler fireman *g.v.* stoking and attending to fires of refuse destructor, and also feeding hoppers in which refuse is placed for lowering into furnace. fireman (gas works); stationed below arguing and discharging stages in retort house, in charge of opening and closing of furnace doors; rakes clinker from furnaces with long rake; cf. fireman (363).

fire raker (boilers); firebeater; rakes out and removes scales and clinker from boiler fires; usually done by boiler fireman *g.v.*

hydraulic boiler man, hydraulic fireman; a boiler fireman *g.v.* raising steam to drive engine which compresses water for hydraulic purposes.

leading stoker, shift foreman stoker; is in charge of shift of stokers in electricity power house, waterworks, or other public works or industrial undertaking; is often responsible for stokers *g.v.* by boiler attendants or stokers *g.v.*; delegates duties, inspects boiler gauges, furnaces, etc., from boiler to boiler, and reports defects or irregularities to steam engineer or to engine attendant (360) *g.v.* stoker's assistant, *see* assistant stoker.

surface fireman; a boiler fireman *g.v.* employed at surface of coal mine.

962.—BOILER SCALERS.

boiler cleaner, boiler scaler, boiler scouter, boiler tube cleaner, boiler tube and fire cleaner; scaler, scaler boy (shipbuilding); removes "scale" (furfurated deposit) from inner surfaces of boilers and from boiler tubes (if any), by chipping with hammer and chisel, by scraping with scrapers, or by chemical means; removes sludge from inside of boilers; brushes out dust, soot and ashes from flues and funnels; cleans boiler tubes (if any), cleans tube joints, and repairs leaks; cleans and washes out fuel economisers (if boiler is fitted with these) and refits caps; sometimes done by boiler fireman (363) *g.v.*

economiser cleaner, economiser scaler, economiser scouter, *see* boiler cleaner.

scaler, scaler boy (shipbuilding), *see* boiler cleaner.

sliger; a boiler fireman (363) or a trimmer (369) *g.v.*, specially employed in large boiler houses or in gas works, etc., for lifting and breaking clinker in fire boxes, with a tool called a slice.

963.—GAS PRODUCER MEN.

acetylene gas maker; (i) employs acetylene containing carbide of calcium when it has been used; cleans carbide receptacle and generator, and recharges them; regulates supply of water to generator and of gas to holders; (ii) *see* generator man.

assistant tanner (glass); a gas producer man *g.v.* producing gas for use in tanner (122) *g.v.* in melting glass; cf. assistant tanner (130). black man, *see* gas plant attendant.

bye-burn gas man (steel works); a gas producer *g.v.* employed at a steel works, either to take place of any regular man who may be absent, or to take long week-end shift, to

enable day and night shifts to change over.

charging rack attendant (acetylene gas); charges cylinders with acetylene gas by attaching them to nozzles (arranged in series on racks through which the acetylene gas is passed); seals and weights cylinders when full; regulates, by means of cocks, supply of gas to various racks.

fireman, gas fireman (producer gas), *see* gas plant attendant.

fireman, water gas fireman; water gas maker's assistant, water gas man; opens doors of water-gas generating furnace at frequent intervals, inserts long iron bars through grid below furnace to raise bottom of furnace; rakes clinker protected about grid.

gas maker, gas man (producer gas); (i) *see* gas plant attendant; (ii) *see* water gas driver.

gas plant attendant, gas plant fireman, gas producer, gas producer man, gas producer attendant, gas producer man, gas stoker (producer gas); block man, fireman (producer gas), gas fireman (producer gas), gas maker (producer gas), gas man (producer gas), producer stand, producer man; feeds with fuel, furnaces or retorts, gas producer, which generates gas used for heating furnaces, kilns, drying chambers, etc.; cleans out gas producer, controls supply of air (and of water, with water gas), and tends to gas producer, and is responsible for quality of producer gas supplied.

generator man (acetylene gas); acetylene gas maker; fills hoppers on generators with calcium carbide, using a long-handled scoop; regulates supply of water in generators, so as to keep an even flow of gas to gas holders; opens traps at intervals, allowing "sludge" (pure lime and water) to flow into sludge pit.

pitman (acetylene gas); pumps "sludge," i.e. pure lime and water from sludge pit, generator man (acetylene gas), with a hand pump, into filtering drums or into presses; these have corrugated plates, covered with linen, weight of which presses water out of lime, and form fine impo hard corrugated slabs; runs off water, removes and stacks lime.

producer band, producer man, *see* gas plant attendant.

water gas driver, water gas maker, water gas operator; gas stoker, gas man (producer gas), water gas man; operates valves regulating blast by which coke in water generating gas plant, i.e. a small cylindrical furnace, is heated to required temperature; when coke is at required temperature, operates another valve, turning on steam, which is forced through coke, generating "water" gas, or *see* admixture with commercial gas at gas works; turns on blast to re-heat coke, and steam to generate fresh supply of water gas; watches state of generator through observation hole, tips coke into generator, with assistance of coke man (362) *g.v.*; regulates down valve which governs reversal of flow of steam or gas; does other incidental work to plant.

water gas maker's assistant, *see* fireman, water gas.

water gas man; (i) *see* water gas driver; (ii) *see* fireman, water gas.

964.—DYNAMO, MOTOR AND SWITCHBOARD ATTENDANTS.

accumulator attendant, accumulator charger, cell charger, *see* battery attendant.

assistant sub-station attendant; supervises correct working of engines or generators in sub-stations, lubricates and cleans machinery,

etc.; assists in cleaning switchboards; under supervision of a skilled substation attendant, and assists sub-station attendant *q.v.* generally.

assistant switchboard attendant; takes meter readings and keeps records in connection with switchboard; works under supervision of switchboard attendant *q.v.*; sometimes in charge of switchboard for short intervals.

auxiliary plant attendant (electricity supply); attends to setting, cleaning and renewal of brushes and brush-gear; cleans commutators and cuts down *vacuo* between segments; cleans auxiliary motors; attends to oil levels of bearings, and is responsible for operation of auxiliary plant and for keeping it clean.

battery attendant, battery man, battery hand; accumulator attendant, accumulator charger, cell charger; charges electrical accumulators for electric lighting or power purposes and cleans them when they require it; periodically recharges cell with a portable voltimeter, checks and boosts up "backward" cells, i.e. cells whose voltage is lower than in remaining cells; cleans internal short circuits, and replaces by hand defective separators; keeps acid in each cell up to level of tap of platen; keeps temperature of solution gravities, taken by means of hydrometer.

controller boy, controller driver (iron and steel); operates switchboard to control electrically, skids, rollers, etc., in rolling mill.

driver (electricity supply); starts and stops, by means of valves and switches, one or more of electric generating machines in a power station, under direction of shift engineer (501) *q.v.*; supervises correct running of machines, lubricates them, and keeps them in proper order; watches pressure gauges.

dynamo attendant; has charge of dynamos generating electric current; oils and greases them, and keeps them in running order; adjusts them, as required, to meet varying demands upon them (technically known as "loads"); keeps clean commutator brushes and switchboard; executes minor repairs to dynamos, renews brushes, etc.

electric conveyor driver, electric transporter driver; controls electric motor which drives a conveyor, used for transporting material, mechanically, about a mine, quarry, factory, or other premises; superintends its working, and oils, cleans and greases various parts of conveyor.

electric fan attendant; switches on electric current supplying power to ventilating fans; regulates speed of fans by adjusting gearing; adjusts brushes on commutators, oils motor and fans; often also has charge of other plant.

electric haulage driver; for electric conveyor driver in charge of electric motor operating haulage plant used for moving material in a mine, quarry, factory, etc.

electric motor attendant, electric motor man; motor man (electric); operates and controls electric motors in a factory, etc., by means of levers connecting starting switches, oils them, and keeps them clean; sometimes also does small repairs.

electric plant attendant; general term for attendant on any electrical machine at an electricity supply station; includes auxiliary plant attendant, dynamo attendant, power house attendant, battery attendant, switchboard attendant, transformer attendant.

motor driver (colliery); motor man (electric); general term for workers operating and controlling electric motors, used for pumping, ventilating, or haulage purposes; is responsible for their general upkeep

and smooth running; includes electric conveyor driver, electric fan attendant, electric haulage driver.

motor man (electric); (i) see motor driver (colliery); (ii) see electric motor attendant.

power house attendant (electric), power house man; attends to engines, generators, and switchboards in small electrical power house attached to a factory, etc., manufacturing power for its own use; combines duties which, in a larger establishment, would be divided between switchboard attendant, driver, and auxiliary plant attendant *q.v.*

recorder attendant (electricity supply); volt boy, volt chaser; employed at small sub-station, where hand volt regulators are used to take and record meter readings; also keeps voltage constant at rheostat.

substation attendant; attends to switchboard work (see switchboard attendant) and to starting of engines at an electric sub-station, usually under direction of a charge hand (501) *q.v.*; in small stations, may be in charge of deputy charge of station, i.e. he may attend to operations of static or rotary converting plant, superintend cleaning of machines, and supervise other workmen generally.

switchboard attendant, switchman; controls main and auxiliary switchboards, regulates supply of current and loading of generators; switches generators into and out of service, as required, watches meters or indicators to ascertain that required voltage of supply is maintained, and records readings periodically, regulating pressure and quantity of electricity and loading of generators.

telpher attendant, telpher driver (gas works), telpher motor driver, telpher motor man; is responsible for, and operates, levers controlling electrical motor which works a telpher (a light car conveying materials about works, suspended from and running on aerial cables).

transformer attendant; employed at electrical sub-station where rotary power is not installed; keeps transformers clean; maintains oil levels in oil glasses on plant; opens and closes switches, switching transformers into and out of main circuits according to load, i.e. amount of current required; examines transformers to ensure that wire and porcelain insulators are in good condition; connects wires, fits on new insulators, and does other small repairs as required.

volt boy, volt chaser, see recorder attendant.

ORDER XXXI—OTHER AND UNDEFINED WORKERS.

900.—EMPLOYERS AND MANAGERS (not elsewhere enumerated).

sewage farm manager; has charge of sewage disposal works, where, if also a farm, the farming is subcontracted. is responsible for satisfactory working of all plant; superintends workers and conducts sales of waste, manure; orders supplies; issues instructions as to cartage; may make certain simple analytical tests of effluent, etc.; cf. farm manager (105).

901.—FOREMEN AND OVER-LOOKERS (not elsewhere enumerated).

foreman (rag sorting); receives bales of rags; gives out work to rag sorters (904) *q.v.* and supervises their work; keeps record of work done; sometimes does work of rag passer *q.v.*

rag passer; a foreman *q.v.* who examines sorted rags and passes them if they are up to standard. superintendence of mill distributors; has charge of gang of mill distributors (900) *q.v.* and is responsible for the proper distribution of bales, etc., and the complete circularisation of districts or areas as instructed by advertising agent; renders report on areas covered, men engaged, wages paid, etc.

902.—TIMEKEEPERS AND GATEKEEPERS.

assistant timekeeper; assists timekeeper *q.v.* with minor clerical duties; may have charge under timekeeper of less important entrance to works, etc.; takes charge in timekeeper's absence.

check station man; an assistant timekeeper *q.v.* in charge of check board on which workmen hang checks for timekeeping purposes; hangs board up and takes it down at specified times; assists timekeeper *q.v.* in recording daily and weekly hours worked by each worker on time sheets.

gatekeeper, gateman; opens and shuts yard gates, guards entrance to works, checks goods and persons coming in and out; sometimes acts as timekeeper *q.v.* and/or weighman *q.v.*

lavatory checker; sits in cabin at lavatory, takes workmen's checks as they pass through turnstile and records time each man is absent from work.

lodging boy, lodge girl; assists lodgeman *q.v.* at gates of textile mill or factory, acts as messenger, etc.

lodge keeper, lodgeman, lodge porter; (i) a gatekeeper *q.v.* occupying lodge at gates of factory or textile mill; (ii) opens and shuts gates of grounds attached to large private house or estate, checks goods and persons coming in or out; usually in telephonic communication with house; nearly always resident with his family in lodge and carries out other duties, e.g. as gardener (103), gamekeeper (910) *q.v.*

penmhole keeper, see watch house keeper.

porter of the close; opens and shuts gates to close of cathedral, etc., at times; carries, patrols precincts of cathedral, etc.; may act as guide and have other duties, e.g. keep keys, keep grounds tidy, sweep leaves.

portress, as for gatekeeper or lodge keeper.

timekeeper; (i) records time of entry and departure of workpeople in a book; (ii) has charge of timekeeping clocks and check boards and superintends "clocking" in and out; locks and unlocks clock mechanism at specified times; prepares card for each worker with name and number; sometimes computes hours worked during week, and makes return to cashier's department on time sheets; sometimes in charge of gate and weighbridge at factories and workshops; cf. gatekeeper.

watch-house keeper; penmhole keeper; a lodge keeper *q.v.* who guards gates of a Lancashire cotton mill.

903.—WATCHMEN.

canal wharf watchmen; a watchman *q.v.* in charge of canal side wharves and cargo left thereon.

constable, policeman (private); a watchman *q.v.* usually wearing uniform; is frequently an ex-police constable on pension; sometimes specifically designated e.g. private constable, private policeman, reservoir policeman, river policeman (water supply).

ship keeper; a watchman *q.v.* who lives and sleeps on board ship in dock and protects ship from intruders; is generally entrusted that ship's gear used in loading and unloading is not damaged, may supervise dockmen (736).

tideman (canal authority); a watchman g.v. in charge of lock and canal company's premises when lock keeper (741) is not on duty, i.e. when tide is out and lock not in use.

patrol (factory or works), watchman, watcher; patrols and guards, by night or day, mines, quarries, works, factories, water supplies, etc., to prevent theft, risk of fire, pollution damage or trespass; sometimes also in factories tends and stokes boiler or furnace fire, and checks time of night workers; sometimes specifically designated according to time of duty or place guarded, e.g. night watchman, day watchman, night watchman, coal spinner watchman, cotton watchman, reservoir watchman, watchman, ship's; attends to lights, moorings, and general safety of ships, during non-working hours of crew, while vessels are afloat and undergoing repair in shipyards, harbours, docks, etc.

964.—RAG, BONE, BOTTLE, ETC., SORTERS.

classifier (paper mill); a sorter g.v. who sorts rags at a paper mill.
cloth sorter and refiner; a sorter g.v. who sorts better class rags.
grader, grader and sorter, passer, picker, sifter, sorter; picks over heap of waste materials and sorts into small heaps according to kind, colour, grade, and condition; sometimes specifically designated according to waste sorted, e.g. hunt picker, linen picker, rag picker, rag sorter, flannel sorter, linen sorter, merino sorter, metal sorter, scrap metal sorter, stocking sorter, cotton waste sorter, new cotton sorter, old cotton sorter, paper sorter, woollen waste sorter.
sorter, bottles; sorts bottles according to size and shape; sometimes does bottle washing.

sorter, marine store; a sorter g.v. engaged in first sorting of miscellaneous waste or "ship's junk" for sale to other waste merchants.
sorter, new clip; a sorter g.v. engaged in sorting new rags, i.e. tailor's cuttings and other fragments of clothing, hosiery, etc., that have not been worn; cf. new clip sorter (360).

sorter, rags; a sorter g.v. who sorts old ropes for sale to rope manufacturers; may also tease out rope fibre.

966.—DROVERS.

drover, cattle drover; (i) drives cattle, sheep or pigs to and from market, fair, etc. for farmers (911) or cattle dealers (770) g.v.; is usually assisted by a sheep dog or other trained dog; (ii) drives imported cattle from ships to lairs or pens and feeds and looks after cattle wharf; sometimes cleans out lairs, etc.; cf. kairman.
kairman, cattle kairman; cleans out and looks after cattle pens (lair) where cattle are kept at cattle wharves or for the night on long journeys to markets or buyers; feeds and waters animals; may also do work of drover g.v.

970.—GENERAL LABOURERS OR OTHER UNSKILLED WORKERS (not elsewhere enumerated).

ash wheeler, ashes wheeler, ash hawk fitter, ash labourer, ash man, ash pit cleaner, ash pit collector, ash trimmer; coal and ash wheeler, cinderman, cinder getter, cinder wheeler, gas pitman, nuker (sift works), shuck wheeler, sifter; a labourer employed in sorting, ridding, milks, etc.; rakes out or shovels ashes from ash pits and fires into barrows; wheels away barrows and tips them on ash dump; removes dust dirt and soot from boiler chambers.

ballast burner; burns clay to form slag in heaps for roadway or building purposes or on railway, etc., and shankments; piles clay waste shovels in a heap, mixing in proportion of crumbed coal; erects boarding in relation to wind to cause forced draught; watches burning and tends heap with shovel, as necessary, to ensure complete combustion.
barge man (post bawker), or forer, man.

bill deliverer, bill distributor; delivers bills, circulars, etc., from house to house in a prescribed area; distributes bills to passers-by in streets, etc., according to instructions received from superintendent of bill distributors (951) g.v.

block boy (scavenging); a street orderly boy g.v. who does scavenging work in or around a block of buildings or section of roadway.

board carrier, boardman, see sand-wichman.

bottle washer, bottle rinsers; bottle cleaner; (i) (chemical works, etc.) soaks bottles in tanks of water; brushes interiors and exteriors of bottles with a bottle brush by hand; rinses bottles in tanks containing clean water; places in racks in drying chamber; (ii) (beer bottling) places bottles in tray, lowers tray into galvanised water tanks or places bottles in a wheel which, revolving by its own weight, i.e. loaded with bottles, carries bottles through water contained in tank at base of wheel; brushes interiors and exteriors of bottles by means of electrically-driven revolving brushes; rinses interiors by injecting jets of clean water into inverted necks of bottles.

breeze wheeler (gas works); shovels clinker and breeze from water trough below furnace doors into hoppers; wheels them away and tips them on dump, fills trough with water as required.

chain hester, chain carrier, chain man; carries chain, staff and reel for surveyor in road, estate, mine, etc., surveying, holds end of chain to mark during measurement; holds staff while surveyor takes levels with level or theodolite.
chairer (railway sleepers); carries "chairs" and places in position on sleepers ready for platelayers (577) g.v.; may also built chair home and otherwise assist platelayer.
cinderman, cinder getter, cinder wheeler, see ash wheeler.

cleaner, aggregate (drainage); brushes daily air gratings or drainage systems and keeps them free from obstruction.

cleaner, harth; removes weeds, silt, etc., from shoe adjoining wharves, with rake and shovel.

cleaner, boiler house; assists fireman (951) g.v. in boiler house by shovelling or raking out cinders from ash pit and wheeling in barrow to cinder heap; sweeps walls and floors of boiler house, wheels coal from coal boiler to boiler.

cleaner, bottle, see bottle washer.

cleaner, dairy vessel; scolds and washes, with boiling water or over steam jet, milk cans, churns, and other utensils used in milk distribution.

cleaner, drum and barrel; rolls empty drums and barrels to cleaning shed; inserts nozzle of flexible iron pipe into bung hole and admits steam to opening valve, rolls drum over drainage channel where hot surplus oil is drained away.

cleaner, engine room; cleans polished metal surfaces of engine room rails, etc., with rag and polish; sweeps up floor and assists engineer or engine driver (930) generally.

cleaner (factory floor), floor cleaner; sweeps out daily and washes or scrubs periodically factory floors before arrival or after departure of workers.
cleaner (grain milling); cleans silk sieving cylinders of flour milling machines every few hours while in

motion, using a hand brush; brushes flour from inside of machine and sweeps up floors.

cleaner, guiley; guiley man; sweeps, cleans and brushes guileys and drains in and around factories, works or other buildings.

cleaner (polish); wipes clean with rag, tin or bottles after they have been filled with polish, black lead, etc.

cleaner, rail, see sweeper.

cleaner, sack (milling); (i) shakes sacks by hand to empty out any residue of previous contents, ready for re-use; (ii) shakes sacks by machinery of varying types, e.g. puts sack from one drum to another, sack to be pulled inside out, removes sack and shakes it by hand; or, puts sack in slot of machine which cleanses it by means of beaters; or, places a number of sacks in revolving wire cage.

cleaner, tile (electric railway); washes glazed tiles at electric railway stations; occupational term obsolete; now graded as porter (700) g.v.

cleaner, tip (coal wharf); sweeps with brush and sweeps borings of coal tip; does other accumulations of coal dust.
cleaner, yard; hard labourer, gardener, hard sweeper, gardener, hard sweeper; sweeps up and (if necessary) washes down yards of factories, works, and other buildings; cleans guileys (arg cleaners, guiley); generally does other similar work in yard, e.g. loading and unloading vans.

coal and ash wheeler, see ash wheeler, coal heaver, coal hagger, coal bag filler; fills coal from trucks or stacks into bags; weighs sack on weighing machine; assists coalman g.v. to carry sacks of coal from coal yard or weighing machine to coal cart.

coal man; loads bags or sacks of coal into coal cart or trolley; drives a horse and cart or trolley, and sometimes hawks and sells sacks of coal in streets; carries sacks of coal from cart to house cellar, cf. coal man (779).
coal porter; coal wharf man; one of a gang of men engaged in unloading coal from barges; conveys it in baskets or sacks to weighing room, at gas works, factories, etc.; may also trim coal for gas, or push coal truck to tip and back empty to coal hopper; cf. coal porter (759).

coal sifter (not at colliery); screens or sifts dust from high grade coal, in coal yards, by shovelling against wire sieve, or by loading coal into automatic screening machine.

coal weigher from stack (gas works); weighs trams (or tubs) of coal filled at coal stock on their way to crushing house and/or from thence to retort house, or boiler house.

coal wharf man, see coal porter.

collator (waste); collects waste material from factories, business and private houses, etc., is usually a van driver (719) or hawker (777) g.v.; cf. tatter, punter (waste).
cinderman (local authority); removes silt from deep of surface water drain with long-handled scoop; keeps drains, gratings, clear of leaves, etc.; sometimes also flushes drains; cf. sewer flusher; usually a corporation labourer g.v.

ding boy, see street orderly boy.

dust sifter; salsop labourer; searches with a long rake among dust and refuse for refuse dump for marketable waste, e.g. bones, metal, rags, etc.; in same way salvages marketable waste from picking belt of dust destructor.
flusher, road flusher; cleans roads and asphalt pavings by flushing with hose from street hydrant; squeegee surface water to nearest drain with long-handled squeegee; usually a corporation labourer g.v.

flusher, sewer flusher; flushes road drains and sewers with water from water cart using liquid or powdered disinfectant; usually a corporation labourer g.v.

gas pitman, see ash wheeler.
grain weigher (elevator); weighs, checks and records weight of grain in sacks before removal to elevator.

clock window; periodically visits public buildings, institutions, works, factories, etc., and winds clocks, cleans and polishes glass faces, makes minor adjustments to clocks according to contracts; occasionally carries out minor repairs, cf. clock jobber (323).

common keeper; a keeper appointed by the local governing authority to guard a common, trees, animals, birds, etc., from destruction, directed by the public, and generally to enforce local by-laws.

competition secretaries; scrutinise answers to newspaper or magazine competitions and reports to editor submitting winning entries for final adjudication.

crane signalman, crane slinger, see slinger

directory compiler; visits business premises and dwelling-houses in a prescribed area and compiles a list of names and addresses of occupiers according to trades or professions, etc., for editor; collects information for preface and brief description of town, borough, etc., giving details regarding population, local authorities, staple industries, etc.; checks names and addresses for annual revisions of directory; solicits advertisements for advertisement pages.

disinfecter; visits premises after a case of major infectious diseases, e.g. scarlet fever, to disinfect bedroom, nurse's room, etc.; sprays rooms with formaldehyde, using fog pump, removes bed and personal clothing for disinfection at local disinfecting station; usually an employee of local health authority.

disinfecter, telephone, see steriliser (telephone)

dispensary collector; calls at private dwellings in poor quarters to collect weekly contributions due for medical attention received at dispensary; sometimes makes follow-up reports to medical superintendent.

distraining broker; carries out distrainments for debt on goods, furniture, etc., under bill of sale or order of the Court; effects entry to debtor's premises, values and attaches furniture, etc., to cover amount of debt; installs and instructs resident bailiff or broker's man q.v.

diver; general term for anyone who works under water, wearing special diving dress which excludes water and is weighted at feet and round body to counterbalance weight; communicates with assistants and foreman above water by telephone in helmet or by signals pulled on life line; duties vary according to class of work on which engaged, e.g. (i) (public works) prepares and super-sizes laying of foundations under water for bridges, piers, breakwaters, etc.; uses pick and shovel, directs, by rope signals, blocks of concrete to be lowered into position on sea or river floor; pushes and heaves blocks into place with crossbar; disengages tackle; removes sub-structures, e.g. piles, by boring with power drill or by sawing; (ii) (salvage) explores submerged wrecks, etc.; sometimes does temporary repairs to enable vessel to be refloated; clears obstructions, cargo and other articles to be salvaged, and attaches tackle for hoisting to surface; (iii) (waterworks) examines walls and floors of reservoirs and carries out such repairs as can be effected without emptying reservoir, e.g. cementing cracks, cleaning inlets and outlets of obstructions, etc.

diver's attendant, diver's linesman, diver's signalman, diver's tender, diver's life line man, linesman (for diver); assists diver q.v. into, and adjusts diving dress; lowers him into water, holds life lines, and takes signals; turns wheel of air pump and controls air supply while diver is under water, by watching pressure gauge.

dog breeder; is engaged in breeding various types of thoroughbred dogs as a business or profession; feeds and exercises dogs; nurses and gives medical attention to sick dogs.

drain tester; tests drains to discover possible leakage at joints or broken pipes, using either chemical smoke test or water test; renders report to local health authority and local authority.

ferro preserver; plants certain kinds of ferns in special glass cases in ferro soil for show purposes or transport, and carries out potting; usually done by nursery gardener (313) q.v.

filterman (sewage farm); opens and shuts valves of sprinkler to control flow of water to filters; occasionally sweeps channel round filter works; periodically empties filter of sludge, cleans walls and bottom and fills with fresh sludge.

fire appliance cleaner; makes periodic visits to buildings, etc., for purpose of cleaning and testing working efficiency of all fire extinguishing appliances; inspects and refills charge in patent fire extinguishers; examines hydrant, hose and nozzle and tests water pressure with pressure gauge; cleans and polishes all bright metal parts.

fireman (private or theatre); is in charge of fire extinguishing apparatus in theatres, music halls, etc.; makes periodic tests of all water hydrants; must be instructed in all public performances and is responsible for keeping exits clear; may be directly responsible to local authorities issuing licences to theatre.

fish breeder, fish butcher, pisciculturist; breeds fish, especially trout and salmon, at hatcheries, farms, etc., for stocking rivers or for market; supervises work of fish hatchery assistants q.v.

fish keeper, assistant; assists fish breeder q.v. keeping hatcheries in proper order, giving food to fish, setting adult fish, "stripping" eggs from female and adding "milt" from male fish in special tanks or ponds; raising small fry for removal and sale.

fish keeper; guards fishing rights on estates and prevents unauthorised persons fishing or trespassing; sometimes attends sportsmen or fishing parties, providing bait, etc., may have combined duties of fish keeper and game keeper (310) q.v.

flap keeper (sanitation); greases and clears obstructions daily from iron flaps, fitted to sewer outlets to prevent entry of solid waste.

floral decorator; decorates ball rooms, tables, churches, etc., with flowers, ferns, palms, etc., in various designs or colour schemes for special functions.

glazier, see lamp attendant

glass mender, repairer, riveter, or for chain repairer; hangs-on, see slinger.

harpooner; one of a crew in whale boat; rows in chase of whale; fires harpoon with explosive head from gun in bow of boat; pays out cable as whale dives, assists in fensing operations, working tackle or cutting blubber and whalebone from carcass with spade-like knives.

horse slaughterer; knacker; slaughters horses by means of humane killer; removes dead horses to his yard; usually cuts up carcasses for commercial purposes.

interpreter; usually a person with a specialised knowledge of two or more languages, including the spoken idiom, who acts as intermediary between those speaking different languages at law courts, international conferences, hotels, railway stations, etc.; sometimes acts as courier (325) q.v. to travellers visiting foreign countries.

kenel man (veterinary); feeds, administers medicine, cleans and takes general care of dogs, cats and other animals in kennels of veterinary surgeon.

knacker, see horse slaughterer

lamp attendant, lamp lighter, lamp man, lamp trimmer; (i) gas fitter; lights and extinguishes public gas lamps in a prescribed area, by means of long pole (torch) with which he turns tap on and off; and, if necessary, lights gas; cleans lamp glasses and renews mantles, etc.; (ii) switches on and off public and domestic electric light; cleans globes; renews carbons and generally adjusts or trims arc lamps; cf. arc lamp assistant (398).

landlord's belliff; executes distasteful, e.g. taking possession of goods, furniture, etc., on landlord's premises, remaining in possession until rent is paid; cf. broker's belliff.

linesman (for diver), see diver's attendant

marked constable; regulates traffic, etc., in markets; enforces by-laws; usually a uniformed official employed by local authority.

market keeper, market manager; has charge of the market; enforces local by-laws; allows space to auctioneers, stall holders, etc.; collects rents; is generally responsible for cleanliness, etc., of market, and enforcement of by-laws.

marquee erector, marquee fixer, see tent erector

menagerie keeper; feeds and attends to a collection of wild animals kept for exhibition purposes; sometimes travels with animals and exhibits them in country towns; cf. showman (323).

mortuary attendant; assists mortuary keeper (321) q.v. in keeping premises clean and disinfected, assists in preparing bodies for burial and at post-mortem examinations; carries bodies from and to mortuary on stretcher or in coffin.

naturalist; collects, mounts, buys and sells live or mounted specimens of birds, insects, fish, animals, trees, flowers, etc.; often also studies their habits.

park keeper, patrol park, prevents trespass, damage to plants and shrubs, or disorderly conduct; generally enforces observance of by-laws; usually a uniformed official employed by a local authority.

picture cleaner, see picture restorer

picture liner; rules line or makes other decoration, usually geometrical in form, round picture on mount with ink or wash colour.

picture mounter; affixes pictures to suitable cardboard or gilt mounts prepared by framing, usually with starch, paste, or colour mountant, or by patent heated press process; may also frame pictures, cf. picture framer (350).

picture restorer; picture cleaner; repairs, restores and cleans old and damaged pictures (oil paintings) removes old varnish by carefully applying spirit solvent on soft swab; retouches painted surface; backs by pasting or glazing on new canvas or board, torn or broken parts of picture; re-varnishes; cleans out all possible dirt; removes stains with solvents, applied with swab or brush, and cleans with soft erasers; remounts; sometimes also frames pictures, cf. picture framer (345).

pisciculturist, see fish breeder

possession man, see broker's belliff

professional solicitor - (competition); seeks out all possible probable positions of an advertisement newspaper or magazine competition and sells them through medium of advertisement to prospective competitors.

range warden; patrols a forest or park, reporting on growth of plantations, prevents trespass and poaching; may shoot rabbits; sometimes collects rents of cottages on estate.

recorder (gramophones); adjusts and uses a recording machine in taking master records, superlatons, from a technical point of view, band, musicians, singers (356) q.v. or other persons making record.

rent balliff, *see* broker's balliff.

rifle shooter; tests accuracy of small arms by shooting therewith at target on rifle range; notes any adjustment necessary in sights; sometimes himself adjusts sights; returns rifle to works for other structural faults, *c.f.* in bore.

rigger; erects staging, tripods, and other temporary lifting tackle with assistance of labourers for use of slinger *c.v.*; is sometimes responsible for slinging of heavy machinery; *c.f.* slinger.

salvage corps, member of; a member of fire brigade or other salvage corps; secures and removes goods, furniture, etc., from buildings, which have been burned by fire, or otherwise damaged; sometimes removes effects during progress of fire to save them from damage by fire, water, etc.

seed room assistant; makes up orders for, weighs and encloses in paper envelopes or boxes, flower, vegetable or farm seeds in seed room for seedsmen (770) *c.v.*

seed sorter; (i) sorts seeds by means of sives according to condition or size into different receptacles, in seed merchant's warehouse; (ii) where seeds are sorted and cleared by electrical machinery, hand picks sorted seeds spread on a bench to remove bad or discoloured seeds.

ship's fumigator; fumigates ships with sulphur, charcoal, etc., fumes, for purifying vessels after infectious disease, or for destroying beetles, vermin, etc.; seals outlets; prepares braziers for burning sulphur, charcoal or chemical compounds producing other vermin-destroying gas; opens outlets when process complete.

sign fixer, *see* advertisement fixer.

slinger; crane signaller, crane slinger, hanger-on; fastens wire or rope sling round bidders, machinery, heavy articles or loads;

attaches sling to hook on crane rope, gives directions to crane driver (854) *c.v.* by signalling with arm for lifting and transporting goods as required; unhooks sling, sometimes further designated, *c.g.* boiler slinger, sleeper mill slinger.

slinger, forger; adjusts chains and tackle to raise heavy ironwork and to sling it towards steam hammers in accordance with blacksmith's instructions; usually done by blacksmith's helper (379) *c.v.*

steriliser (telephone); telephone disinfecter; visits businesses and private premises periodically to clean and scrub with disinfecting fluid the mouthpieces and receivers of telephone instruments.

sweeping machine man (roads); drives a horse-drawn or petrol-driven machine brush up and down a road or street to sweep up dust, refuse, etc.; usually employed by local authority.

taxidermist; animal preserver, animal stuffer, bird preserver, bird stuffer; preserves and stuffs the skins of animals, birds, fish, reptiles, etc., removes skin from dead body with special knives, scissors, pliers, etc., taking care to preserve scales, feathers, hairs, etc., in natural state; rubs preservative solutions into the skin; makes body foundation or manikin by building up, on wire foundation or armature, with paper, macké, adhesive tape, etc., to give a natural attitude and to show as exactly as possible the form, muscles, etc.; covers manikin with skin and with a special mounting causes it closely to adhere; finally dresses feathers, scales, etc., affixes eyes, teeth, claws, etc.; sometimes mounts specimen in case with representations of natural surroundings.

teasle clipper; clips off by hand with large scissors, the leaves or beard at base of teasle flower head; clips off stalk a few inches below flower head.

teasle cutter; cuts off top and base of flower head of large teasles used in hosiery trade, by holding by hand against two circular knives.

teasle sorter; sorts teasles according to size (19 size), throwing them into different boxes for packer (845) *c.v.*

tent erector, tent fixer; marquee erector, marquee fixer; (i) assembles the various parts of marquee or tent, canvas tent, poles, ropes, etc.; drives in pegs to hold staying ropes; (ii) supervises the work of erection by labourers.

university constable; patrols streets in neighbourhood of university; arrests students for specified misdemeanours; works under direction of Proctor, to whom all evidence is submitted.

warder (museum); guards collection of articles, stuffed animals, or other valuable historical or interesting objects; prevents damage by the public; sometimes acts as guide to visitors; usually has care of keys and opens and closes museum at stated times.

waterman (sewage farm); opens and closes sluice gates by which effluent from filters is distributed in irrigation system of sewage farm; inserts stops as required in water channels; greases sluice gates and keeps them and channels free from obstruction; often also works as farm labourer (694) *c.v.*

zoological gardens keeper; guards, feeds, and tends animals, reptiles, birds, fish, insects, etc.; cleans out cages and enclosures; prepares special food as required; under instructions administers medicine and tends sick animals in sanatorium.

ALPHABETICAL LIST OF OCCUPATIONAL TERMS SHOWING THE CODE NUMBER OF THE HEADING TO WHICH EACH IS TO BE REFERRED.

The figures denote the Code Number of the Heading under which the Occupation will be found.

If an Occupation is expressed by more than one word, and is not found under the first, it should be sought under each successive word.

Sometimes an Occupation which does not appear in the Alphabetical List may be found under a description which is only a slight variant from it.

Code Number.		Code Number.		Code Number.
A				
A.B.	735	action farger (gun) ...	196	
able-bodied seaman ...	735	action freezer ...	239	
able seaman ...	735	action joinder ...	239	
abrasive wheel fireman ...	992	action machiner ...	200	
abrasive wheel kilm man ...	992	action maker, bottom (player piano) ...	642	
abrasive wheel maker ...	999	action maker (concertina) ...	642	
abrasive wheel maker's helper ...	999	action maker, French (piano) ...	642	
abrasive wheel miner ...	998	action maker (gun) ...	239	
abrasive wheel turner ...	998	action maker (organ, piano) action maker, top (player piano) ...	642	
absorber man ...	143	action part maker (piano) ...	642	
accessories assembler ...	309	action rail finisher ...	496	
accessories mounter ...	309	action rail maker ...	496	
accessories preparer ...	319	action regulator (piano) ...	642	
accessories worker (sewing machines) ...	279	action screw-down (piano) ...	649	
accident inspector ...	714	action viewer (small arms) ...	278	
accomplice ...	886	actor ...	885	
accordion maker ...	646	actor, cinema ...	885	
accordion pleater ...	491	actor manager ...	885	
account, assistant ...	939	actor vocalist ...	885	
accountant (bank) ...	939	actress ...	885	
accountant (book-keeper) ...	939	actress, cinema ...	885	
accountant (chief) ...	931	actuarial clerk ...	939	
accountant, chief ...	931	adapter (artificial teeth) adapter, gas and candle fittings ...	684	
accountant, cost ...	933	adding machine inspector ...	305	
accountant, costing ...	933	adding machine mechanic ...	267	
accountant, turf ...	930	adding machine operator ...	939	
accountant/clerk ...	930	addresser, circular ...	789	
accountant's clerk ...	939	addresser, envelope ...	789	
account book binder ...	532	addressograph operator ...	939	
account book ruler ...	533	adhesive seal maker ...	559	
account man, owner's ...	954	adjuster ...	323	
accounts clerk ...	939	adjuster, averaging ...	210	
accounts clerk (railway) ...	939	adjuster, balance ...	260	
accountment clerk ...	342	adjuster, binocular ...	322	
accountment maker, army ...	346	adjuster, chains ...	793	
accumulator ...	302	adjuster, compass ...	322	
accumulator attendant ...	954	adjuster, field glass ...	322	
accumulator box and stand maker ...	474	adjuster (gramophones) ...	648	
accumulator case bender ...	619	adjuster, instrument ...	329	
accumulator case renewer ...	619	adjuster, lens ...	322	
accumulator charger ...	618	adjuster, load ...	706	
accumulator erector ...	302	adjuster, scale ...	260	
accumulator installer ...	302	adjuster, ship's compass ...	322	
accumulator maker ...	302	adjuster, sound board (piano) ...	496	
accumulator paster ...	302	adjuster, spring balance ...	260	
accumulator plate maker ...	138	adjuster, staking ...	210	
accumulator repairer ...	302	adjuster, suit ...	210	
accumulator sawyer ...	319	adjuster, watch and clock ...	323	
acetic acid distiller ...	142	adjuster, weighing machine ...	260	
acetic acid maker ...	142	adjuster, weight ...	260	
acetone maker ...	142	adjuster (Weights and Measures Department)	260	
acetone purifier ...	142	adjustment operator (sewing machine) ...	210	
acetone rectifier ...	142	advance agent ...	880	
acetone rectifying man ...	142	advertisement agent ...	779	
acetone weigher ...	149	advertisement contractor ...	774	
acetylene burner ...	249	advertisement contractor ...	779	
acetylene burner and welder ...	249	advertisement drop curtain painted ...	594	
acetylene gas apparatus fitter ...	250	advertisement liner ...	989	
acetylene gas maker ...	913	advertisement inspector ...	779	
acetylene welder ...	249	advertisement manager ...	779	
acetylene welder and cutter ...	249	advertisement manager (news- paper) ...	779	
acetyliner ...	143			

	Code Number.		Code Number.		Code Number.
advertisement painter	594	agent, district goods	700	agent and surveyor, land	796
advertisement representative	774	agent, district mineral	700	agent's manager	881
advertisement sign engraver	241	agent, district passenger	700	agent's manager, band	881
advertisement superintendent	779	agent, drainage	018	agent's manager, concert	881
advertising agent	779	agent, draper's	770	agent's manager, film hiring	881
advertising canvasser	774	agent, dress	770	agent's manager, theatrical	881
advertising clerk	839	agent, dyer's	775	agent's manager, variety	881
advertising contractor	779	agent, educational	771	agent, annals	398
advertising expert	779	agent, emigration	771	ager (electric lamps)	398
advertising inspector	779	agent, employment	771	ager, flash	398
advertising inspector (rail- way)	700	agent, enquiry	779	ager, hydrosulphite	398
advertising labourer	970	agent, estate	796	ager, lading	398
advertising manager	779	agent, estate, and surveyor	796	ager (textile)	398
advertising representative	779	agent, film hiring	861	ager man	398
advertising superintendent	779	agent, financial	797	ager minder	398
advertising traveller	774	agent, forwarding	700	agricultural agent	010
adviser, traffic	714	agent, goods	796	agricultural filter	210
adviser, turf	890	agent, house	796	agricultural machine knife	190
adzer	473	agent, house and estate	796	agricultural machine knife	190
aerial flight attendant	049	agent, house purchase	799	agricultural machine knife	190
aerialist	899	agent, income tax recovery	799	agricultural machine knife	190
aerial pilot	752	agent, insurance (canvasser)	799	agricultural machine knife	190
aerial rope signman	752	agent, insurance (chief)	799	agricultural machine knife	190
aerial ropeway attendant	049	agent, land	796	agricultural machine knife	190
aerial ropeway controller	950	agent, laundry receiving	771	agricultural machinery erector	210
aerial ropeway foreman	041	agent, lecture	881	agricultural machinery erector	210
aerograph artist	546	agent, literary	771	agricultural machinery erector	210
aerograph decorator	108	agent, Lloyd's	793	agricultural machinery erector	210
aerographer (enamelling, pauing)	241	agent, Manchester	771	agricultural machinery erector	210
aerographer (general) paint- ing)	592	agent, manufacturer's	771	agricultural machinery erector	210
aerographer (paper staining)	548	agent, medical	796	agricultural machinery erector	210
aerographer (pottery)	108	agent, mercantile	796	agricultural machinery erector	210
aerographer (textile)	362	agent, metalliferous mining	050	agricultural machinery erector	210
aerograph worker	549	agent, mine (metal mines)	050	agricultural machinery erector	210
aerogram	752	agent, mine (other mines)	070	agricultural machinery erector	210
aeronautical draughtsman	882	agent, mineral (commerce)	771	agricultural machinery erector	210
aeroplane builder	658	agent, mineral (metal mines)	050	agricultural machinery erector	210
aeroplane constructor (opera- tive)	658	agent, mineral (railway)	700	agricultural machinery erector	210
aeroplane erector	653	agent, mineral traffic	700	agricultural machinery erector	210
aeroplane filter	210	agent, mining	040	agricultural machinery erector	210
aeroplane pilot	752	agent, money	797	agricultural machinery erector	210
aeroplane rim, spar or strut maker	481	agent, mortgage	799	agricultural machinery erector	210
aeroplane trimmer	504	agent, naturalisation	771	agricultural machinery erector	210
aeroplane upholsterer	504	agent, newspaper	770	agricultural machinery erector	210
aeroplane woodworker	486	agent, nursing	771	agricultural machinery erector	210
affixer, invoices	706	agent (other mines and quarries)	070	agricultural machinery erector	210
African agent	771	agent, packer	736	agricultural machinery erector	210
agate beam maker	880	agent, partnership	736	agricultural machinery erector	210
agate splitter	358	agent, passage	736	agricultural machinery erector	210
agating machine minder	358	agent, passenger (commerce)	771	agricultural machinery erector	210
age minder	358	agent, passenger (railway)	700	agricultural machinery erector	210
agent, advance	880	agent, patent	771	agricultural machinery erector	210
agent, advertisement	779	agent, press	779	agricultural machinery erector	210
agent, advertising	779	agent, press cutting	799	agricultural machinery erector	210
agent, African	771	agent, private enquiry	829	agricultural machinery erector	210
agent, agricultural	771	agent, property	779	agricultural machinery erector	210
agent, air	914	agent, publicity	779	agricultural machinery erector	210
agent, assistant	071	agent, purchasing	779	agricultural machinery erector	210
agent, assistant goods	700	agent, railway	772	agricultural machinery erector	210
agent, assurance (canvasser)	795	agent, railway carting (con- tractor)	713	agricultural machinery erector	210
agent, assurance (chief)	794	agent, railway carting (not employer)	729	agricultural machinery erector	210
agent, bank	881	agent, railway parcel (con- tractor)	713	agricultural machinery erector	210
agent, Bible Society's	779	agent, railway parcel (not employer)	729	agricultural machinery erector	210
agent, billposting	779	agent, receiving office	700	agricultural machinery erector	210
agent, book	770	agent, rent	796	agricultural machinery erector	210
agent, brewer's	796	agent (retail, wholesale deal- ing)	770	agricultural machinery erector	210
agent, brewery	796	agent, river and canal	730	agricultural machinery erector	210
agent, busy	731	agent, royalty	790	agricultural machinery erector	210
agent, harness	796	agent, savings bank	771	agricultural machinery erector	210
agent, business transfer	796	agent, scholastic	771	agricultural machinery erector	210
agent, canal	730	agent, school	771	agricultural machinery erector	210
agent, carpet	771	agent, ship	730	agricultural machinery erector	210
agent, carting	713	agent, shipping	730	agricultural machinery erector	210
agent, circular distributing	779	agent, station	700	agricultural machinery erector	210
agent, clothing club	774	agent, surface	040	agricultural machinery erector	210
agent, club (benefit society)	795	agent, theatrical, &c.)	881	agricultural machinery erector	210
agent, coal depot	700	agent, toll	729	agricultural machinery erector	210
agent, coal mining	040	agent, tourist	771	agricultural machinery erector	210
agent, colliery (dealing)	770	agent, traffic (canal)	731	agricultural machinery erector	210
agent, colliery estate	041	agent, traffic (railway)	700	agricultural machinery erector	210
agent, colliery (mining)	040	agent, tng company's	730	agricultural machinery erector	210
agent (commerce)	771	agent, tariff commission	890	agricultural machinery erector	210
agent, commercial	771	agent, underground (coal mine)	050	agricultural machinery erector	210
agent, commission enquiry	799	agent, underground (metal mine)	051	agricultural machinery erector	210
agent, commission (insurance)	794	agent, underwriter's	793	agricultural machinery erector	210
agent, commission (turf)	881	agent, variety	881	agricultural machinery erector	210
agent, concert	881	agent, Veritas	793	agricultural machinery erector	210
agent, confidential	771	agent, wharf	732	agricultural machinery erector	210
agent, cycle	770	agent, works	070	agricultural machinery erector	210
agent, depot	700			agricultural machinery erector	210
agent, directory	774			agricultural machinery erector	210
agent, district canvassing	700			agricultural machinery erector	210

	Code Number.		Code Number.		Code Number.
alkali labourer	149	angle iron straightener	199	apprentice (seaman)	735
alkali mixer	143	angle iron stoddler	278	apprentice, seat maker's	575
alkali packer	149	angle maker	102	apprentice, viewer's	041
alkali worker	149	angle mill worker	279	apprentice, wood sorter's	360
alley girl	159	angleSmith's backhand	279	apprentice cook	523
allocation clerk	539	angleSmith's hammerman	190	apprentice sealer	941
allocation holder	013	angleSmith's striker	190	apron maker	575
allowance deliverer	753	angle pressman	159	apron maker, freemason's	419
allowance man	459	angle roller	159	apron presser	428
alloy furnaceman	171	anneal age	396	aquarium attendant	989
alloy man (copper smelting)	278	anneal black dyer	381	aquarium labourer	370
al-rounder	414	anneal dye maker	143	aqueduct walkman	686
al-round hand	532	animal carver	465	aqueduct watchman	585
all sorts stripper	449	animal charcoal burner	143	arbitrage broker	799
almanac maker	545	animal charcoal grinder	149	arbitragist	799
almond blancher	449	animal charcoal maker	143	arbitragist, bullion	799
almond grinder	449	animal charcoal restor hand	143	arbitragist, foreign exchange	799
almond paste maker	435	animal keeper	585	arbitragist, stock	799
almond paste worker	435	animal preserver	585	arbitrator (valuing)	795
almond picker	449	animal stuffer	989	arbor driver	270
alpaca weaver	370	animal transfer	595	arbor maker	524
alphabet cutter	555	animal trainer	148	arbor maker, fusse	324
alteration hand (dressmaking)	405	annealer, blade	229	arbor attendant	929
alteration hand (tailoring)	405	annealer, blade	229	arbor bundle	929
alterer, carpet	358	annealer (files)	229	arbor policeman	929
alterer, loom	358	annealer (finished wire)	229	arbor porter	929
alternator attendant	950	annealer (glass)	138	arbor	929
alternator fitter	210	annealer, hand (galvanised)	229	archer	585
alum clay worker	076	annealer, sheet	229	arch (colliery working)	575
alum furnaceman	171	annealer (metal)	229	arch, fixed, gauged	562
aluminium caster	171	annealer (nails, tacks, screws)	229	architect, garden	018
aluminium foil roller	171	annealer, pot	109	architect's draughtsman	832
aluminium founder	188	annealer (pottery)	109	architect's photographic paper	
aluminium foundry furnace-		annealer (precious metals)	298	maker	638
man	188	annealer, rim	229	architectural draughtsman	832
aluminium foundry labourer	188	annealer, rough (grind)	229	architectural modeller	574
aluminium granular	188	annealer (tinplate)	229	architectural sculptor	574
aluminium ingot caster	188	annealer's fireman	279	architectural wood carver	485
aluminium moulder	529	annealer's helper	279	arch man, brick	565
aluminium printer	529	annealing furnace fireman	279	are lamp assistant	698
aluminium rotary printer	529	annealing furnaceman	171	are lamp cleaner	698
aluminium sheet roller	171	annealing furnaceman	171	are lamp fitter	698
aluminium turner	209	annealing furnaceman	171	are lamp maker	698
aluminous cake maker	143	annealing furnaceman	171	are lamp trimmer	698
alum sieve lad	143	annealing furnaceman	171	are light printer	698
alum sieve man	143	annealing furnaceman	171	area inspector, front	730
alum maker	143	annealing furnaceman	171	ark man	104
alum millman	143	annealing furnaceman	171	armature assembler	319
alum mixer	076	annealing furnaceman	171	armature bander	303
alum mould man	149	annealing furnaceman	171	armature binder	303
alum weighman	149	annealing furnaceman	171	armature builder	318
amalgamator (gold)	349	annealing furnaceman	171	armature coil winder	303
amanuensis	056	annealing furnaceman	171	armature die setter and	
Amesbury skiver machine		annealing furnaceman	171	stamper	254
operator	414	annealing furnaceman	171	armature disc winder	303
amber mixer	076	annealing furnaceman	171	armature flier	233
amber turner	638	annealing furnaceman	171	armature winder	303
amber worker	638	annealing furnaceman	171	armature winder, magnets	303
ambulance builder	475-8	annealing furnaceman	171	armourer, cable	319
ambulance corps worker	929	annealing furnaceman	171	armourer (cables)	319
ambulance driver (horse)	729	annealing furnaceman	171	armourer, horse	593
ambulance driver (motor)	729	annealing furnaceman	171	armourer (rubber boots)	239
ambulance maker	475-8	annealing furnaceman	171	armourer (small arms)	239
ambulance man	929	annealing furnaceman	171	armouring machine worker	
ambulance superintendent	041	annealing furnaceman	171	(cables)	518
amethyst cutter	638	annealing furnaceman	171	armouring machine worker,	
amethyst assembler	309	annealing furnaceman	171	wire	318
ammoniacal liquor extractor	596	annealing furnaceman	171	armourer, paper	321
ammonia stillman	142	annealing furnaceman	171	arm shaft fitter	210
ammonium chloride maker	143	annealing furnaceman	171	army accountment maker	410
ammonium nitrate dryer	149	annealing furnaceman	171	Army and Navy cap maker	410
ammonium sulphate plantman	143	annealing furnaceman	171	array clothing contractor	770
ammonium maker	146	annealing furnaceman	171	arranger and estimator, auto-	
amusement caterer	883	annealing furnaceman	171	matio (gas company)	933
amusement printer	633	annealing furnaceman	171	arranger, engine	790
anatomical machinist	291	annealing furnaceman	171	arrow fastener	688
anatomical drill	279	annealing furnaceman	171	arrow m	496
anchore	279	annealing furnaceman	171	arsenic burner	171
anchor fitter	278	annealing furnaceman	171	arsenic calmer	171
anchor forgerman	190	annealing furnaceman	171	arsenic calmerman	171
anchor smith	190	annealing furnaceman	171	arsenic furnaceman	171
anchor smith's striker	190	annealing furnaceman	171	arsenic grinder	149
anodized barometer assembler	322	annealing furnaceman	171	arsenic labourer	149
anodized barometer movement		annealing furnaceman	171	arsenic packer	149
maker	322	annealing furnaceman	171	arsenic reducer	171
angle brass fitter	224	annealing furnaceman	171	arsenic roaster	171
angle chopper	279	annealing furnaceman	171	arsenic smelter	171
angle crepper	279	annealing furnaceman	171	arsenic smelting	171
angle cutters	518	annealing furnaceman	171	arsenic tin roaster	171
angle iron bender	190	annealing furnaceman	171	artesian beer	580
angle iron carter	183	annealing furnaceman	171	artesian drill	580
angle iron puncher	279	annealing furnaceman	171	artesian well sinker	580
angle iron smith	190	annealing furnaceman	171	art furniture maker	473
angle iron smith's backhand	279	annealing furnaceman	171	art skeleton	939
angle iron smith's hammer-		annealing furnaceman	171	artificial bait maker	686
man	190	annealing furnaceman	171	artificial eye maker	124
angle iron smith's helper	279	annealing furnaceman	171	artificial flag maker	098
angle iron smith's striker	190	annealing furnaceman	171		

	Code Number.		Code Number.		Code Number.
artificial flag marker ...	966	ash hopper man ...	699	assembler, motor ...	279
artificial flag stacker ...	969	ash labourer ...	970	assembler, motor-cycle ...	279
artificial flag-stone maker ...	966	ash lad ...	709	assembler, motor (electric) ...	318
artificial flower cutter ...	403	ash loader ...	709	assembler, motor (grams)	648
artificial flower cutter (paper)	552	ash maker, soda ...	143	assembler, perambulator ...	658
artificial flower cutter-out (paper)	552	ashman (coal mining) ...	949	assembler (pen knife, pocket knife, spring knife) ...	226
artificial flower maker ...	689	ash man (general labourer)	970	assembler, perambulator hood frame ...	658
artificial flower mounter ...	689	ashman (metal mine) ...	956	assembler, plane ...	474
artificial flower stamper ...	403	ashman (metal works) ...	279	assembler, player ...	542
artificial flower stamper (paper)	552	ash man, pearl ...	143	assembler, rheostat ...	309
artificial fly dresser ...	688	ash man (railway) ...	709	assembler, ride ...	239
artificial fly maker ...	688	ash man, soda ...	709	assembler (rubber shoes) ...	609
artificial hilt maker ...	613	ashman raker ...	709	assembler, sewing machines ...	279
artificial madder maker ...	143	ash pit cleaner ...	970	assembler (silver, etc., goods)	287
artificial silk worker ...	396	ash pit collector ...	970	assembler (slices) ...	278
artificial silk worker (chemical process) ...	143	ash pit labourer ...	709	assembler, switchboard ...	318
artificial stone finisher ...	966	ash pit man ...	699	assembler, telegraph instrument ...	309
artificial stone maker ...	969	ash plant attendant ...	143	assembler, telephone instrument ...	309
artificial stone presser ...	969	ash recovery man ...	970	assembler, transformer ...	309
artificial wreath maker ...	688	ash trimmer ...	699	assembler (trouser presses) ...	689
art iron worker ...	221	ash trimmer (electricity supply) ...	699	assembler (watches and clocks)	323
artist, aerograph ...	899	ash wheeler (chemicals) ...	149	assembler, damages ...	714
artist, athlete ...	899	ash wheeler (coal mining) ...	949	assessor of fire losses ...	793
artist, autograph ...	528	ash wheeler (coke and by-products) ...	939	assessor of risks ...	793
artist, chromo ...	528	ash wheeler (gas, electricity and waterworks) ...	699	assistant, arc lamp ...	696
artist, equestrian ...	899	ash wheeler (general labourer)	970	assistant, assay ...	296
artist (film) ...	688	asparagus grower ...	913	assistant, assayer's (not Assay Office) ...	296
artist, ferrotype ...	610	asphalt block maker ...	579	assistant, baker's (bakeryhouse)	433
artist, ivory ...	528	asphalt layer ...	579	assistant, baker's (shop) ...	775
artist, lithographic ...	528	asphalt maker ...	579	assistant, bar (public-house, etc.) ...	915
artist, monochrome ...	528	asphalt mixer ...	579	assistant, bar (temperance hotel) ...	929
artist, mosaic ...	118	asphalt pavior ...	579	assistant, barber's ...	389
artist, operative ...	896	asphalt pot man ...	381	assistant, blender's (mar-gotting) ...	449
artist, photographic ...	327	asphalt roofer, sheet ...	432	assistant, blow-up man's ...	449
artist, pottery ...	548	asphalt separator man ...	432	assistant, book room ...	708
artist, process ...	548	assay assistant (not assay office) ...	296	assistant, brocklayer's ...	366
artist, trapeze ...	899	assayer's assistant (not assay office) ...	296	assistant, brick maker's ...	119
artist, vegetable ivory ...	610	assembler, accessories ...	309	assistant, buffer maker's ...	279
artiste ...	885	assembler, action (gun) ...	219	assistant, bundler's ...	279
artiste, comedy ...	885	assembler, action (piano) ...	542	assistant, button worker's ...	449
artiste, music hall ...	885	assembler, alleron ...	474	assistant, cable tender's ...	319
artiste, operative ...	885	assembler, ammeter ...	309	assistant (cake decorating, etc.) ...	433
artiste, variety ...	885	assembler and finisher, towelshell ...	616	assistant, calendar ...	384
artistic restorer ...	909	assembler, aneroid barometer ...	322	assistant, camera man's ...	527
artist in hair ...	920	assembler, armature ...	118	assistant, caterer's ...	329
artist's brush maker ...	633	assembler, axle ...	279	assistant, cell room ...	449
artist's camera printer ...	949	assembler, ball bearings ...	279	assistant, cheese maker's ...	449
artist's colourman ...	770	assembler, banister ...	474	assistant, chemist's ...	775
artist's frame strainer ...	483	assembler, basket (bedstead) ...	276	assistant, churner's ...	449
art metal fitter ...	221	assembler, ball ...	279	assistant, cinematograph operator's ...	687
art metal fitter's mate ...	221	assembler, bicycle ...	279	assistant, coal loader's ...	342
art metal smith ...	221	assembler, bottle cap ...	279	assistant, collier's ...	381
art metal worker ...	221	assembler, brake ...	279	assistant, colour mixer's ...	639
art needlework designer ...	426	assembler, brush ...	322	assistant, colour spreader's ...	639
art needleworker ...	407	assembler, camera ...	322	assistant, confectioner's (decorative) ...	446
art printer ...	528	assembler (cardboard containers) ...	559	assistant, confectioner's (sugar boiling) ...	449
art printer, fine ...	528	assembler, case (gramophone)	309	assistant, cookery centre ...	929
art school attendant ...	929	assembler, clock (meter) ...	316	assistant, cooper's ...	439
art ware maker ...	105	assembler, core ...	406	assistant, crystallizer's (sugar)	449
art worker, cloisonné ...	296	assembler (cortet) ...	279	assistant, cutter's ...	279
asbestos calenderer ...	384	assembler, crown cork ...	279	assistant, cutter-out's ...	285
asbestos carder ...	383	assembler, cutlery ...	229	assistant, dairyman's ...	449
asbestos coiler ...	383	assembler, cycle brake ...	229	assistant, describer's ...	159
asbestos crusher ...	382	assembler, cycle finishing ...	229	assistant, depositor's ...	288
asbestos doubler ...	388	assembler, duplicating machine ...	279	assistant, dipper's ...	119
asbestos fuel maker ...	389	assembler (electrical apparatus) ...	309	assistant, draught ...	618
asbestos grinder ...	382	assembler, electric meter ...	309	assistant, dresser's ...	383
asbestos joint maker ...	382	assembler, elevator (aero-plane) ...	474	assistant, electrician's ...	319
asbestos opener ...	382	assembler, field glass ...	322	assistant, electro-plating ...	239
asbestos packer ...	382	assembler, film ...	688	assistant, electrotypers ...	213
asbestos pecking maker ...	382	assembler, frame ...	658	assistant, filer's ...	213
asbestos plaster ...	386	assembler, galvanometer ...	309	assistant, fitter's ...	279
asbestos polisher ...	386	assembler (general metal works) ...	279	assistant, forger ...	191
asbestos raker ...	688	assembler (gramophone)	449	assistant, galvanizer's ...	279
asbestos roller ...	383	assembler, gun ...	239	assistant, gas regulator's ...	689
asbestos sheet cutter ...	983	assembler, hood frame ...	658	assistant, gilder's ...	239
asbestos sifter ...	370	assembler, instrument ...	309	assistant, glazier ...	279
asbestos spinner ...	385	assembler, keyless work ...	324	assistant, glazier's ...	279
asbestos wedding band ...	385	assembler, magnet ...	309	assistant, gripper's ...	279
asbestos weaver ...	379	assembler, macroscopic meter ...	322	assistant, hairdresser's ...	920
asbestos pipe man ...	549	assembler, meter ...	309	assistant, hammerman's ...	279
ash and stick man ...	959	assembler, motor ...	309	assistant, hardener's (cutlery)	279
ash bank fairy ...	970			assistant, hardener's (saw)	689
ash boy ...	709			assistant, heater's ...	279
ash man ...	279				
ashman wheeler (general labourer)	970				
ashes wheeler (metal works) ...	279				
ash filler, coke ...	989				
ash filler (coke and by-products) ...	989				
ash filler (railway) ...	709				
ash finisher ...	143				
ash furnaceman ...	143				
ash hopper ...	689				

	Code Number.		Code Number.		Code Number.
assistant, hose maker's	609	assistant, upholsterer's	509	assistant, shaftman	047
assistant, hotel	629	assistant, valveman's	388	assistant, shifting mistress	365
assistant, iron checker's	279	assistant, wardrobe	405	assistant, signman	703
assistant, joiner's	319	assistant, weaver's	370	assistant, signman, relief	703
assistant, kitchen (ship)	737	assistant, weighman's	049	assistant, staff engineer	300
assistant, lair	139	assistant, wireman's	319	(G.P.O.)	580
assistant, library	775	assistant, accountant	599	assistant, stage manager	580
assistant, licensed victual-		assistant, agent	571	assistant, station engineer	
ler's	915	assistant at mandrels (iron		(electricity supply)	690
assistant, lineman's (railway)	311	and steel tubes)	279	assistant, station master	700
assistant, machine	330	assistant, back tenter (paper		assistant, stoker	951
assistant, machine cutter's	042	staining)	549	assistant, storekeeper (Post	
assistant, machineman's	319	assistant, tankman	049	Office)	941
assistant, market salesman's		assistant, blast enginemn		assistant, store minder	279
(market stall)	777	(iron and steel)	950	assistant, station attendant	954
assistant, mason's	573	assistant, book-keeper	329	assistant, superintendent,	
assistant, mate	433	assistant, bottomer	043	carriage (railway)	713
assistant, master room	319	assistant, brewer	453	assistant, superintending	
assistant, milliner's	406	assistant, butcher (ship)	737	engineer (G.P.O.)	300
assistant, monotype caster	524	assistant, cashier	939	assistant, supervisor (Post	
assistant, moulder's	183	assistant, chief clerk	939	Office telegraphs)	751
assistant, nickel rondelle		assistant, chief draughtsman	337	assistant, supervisor (Post	
maker's	279	assistant, chief (ship)	737	Office telegraphs)	751
assistant, oil-lamps shop	914	assistant, collector	042	assistant, surveyor	049
assistant, Oliver hammer	279	assistant, deputy	041	assistant, switchboard atten-	
assistant, Oliver (helper)	279	assistants, dialler	049	dant	954
assistant, Oliver (smith)	190	assistant, district inspector	714	assistant, tender (gas pro-	
assistant, operating theatre	929	assistant, district permanent		ducer attendant)	953
assistant, outdoor (personal		why inspector	714	assistant, tender (glass works)	139
service)	929	assistant, district traffic fore-		assistant, tender (jute)	380
assistant, outdoor (railway)	700	man	704	assistant, timberman	044
assistant, outdoor traffic		assistant, district traffic		assistant, time-keeper	962
(tramsways)	714	inspector	714	assistant, traffic manager	041
assistant, output (omnibus)	714	assistant, divisional inspector	714	assistant, traffic regulator	
assistant, outside	700	assistant, divisional permanent		(tramsways, &c.)	714
assistant, painter's	599	way inspector	714	assistant, traffic superinten-	
assistant, photographer's	527	assistant, divisional traffic		dent (aviation)	750
assistant, photographic	527	inspector	714	assistant, warehouseman	043
assistant, picker's (gal-		assistant, drawer	043	assistant, turbine driver	950
vanish sheet)	279	assistant, draw frame tenter	399	assistant, turncock	696
assistant, pipe bender's	279	assistant, dresser	389	assistant, under-manager	041
assistant, plaster's (boiler,		assistant, driver (iron and		assistant, under-steam	041
girder, ship, &c.)	223	steel)	950	assistant, vulcanised fibre	
assistant, plaster's (electro-		assistant, driver (textile)	365	machine minder	559
plating)	299	assistant, electrician (theatre,		assistant, warehouse keeper	940
assistant, plating	299	&c.)	365	assistant, warehouseman	043
assistant, potter's	119	assistant, engineer, chief		assistant, writer (ship)	327
assistant, prescription	138	(electricity supply)	690	assistant, yard master	700
assistant, railway catering	929	assistant, engineer (G.P.O.)	301	assorter (galvanised sheet)	278
assistant, receiving - room		assistant, engineer super-		assorter (glass)	139
(tailor's)	429	intendent (aviation)	750	assorter (tin box)	278
assistant, receiving shop	775	assistant, engineer (water		assorter (linoleum)	278
assistant, refter's	156	works)	590	assorter's helper	278
assistant, re-disorder's	279	assistant, examiner	041	assurance agent (conveyancer)	795
assistant, rifle range	599	assistant, fireman	041	assurance agent (chief)	794
assistant, roller's (precision		assistant, furnace keeper	171	assurance company's clerk	939
metals)	299	assistant, furman, coat		athlete, professional	999
assistant, roller's (rolling		house)	279	athletic artist	499
mill)	176	assistant, gas man	279	athletic ground keeper	899
assistant, sagger maker's	116	assistant, glazer	279	Atlas mixer	143
assistant, sack maker's	319	assistant, goods agent	700	atlas case maker	345
assistant, set member's	299	assistant, goods guard	702	attache, heel	414
assistant, shearer's (metal		assistant, grinder	279	attache, ironing	709
trades)	279	assistant, grocerman	702	attache, machine bed (dread	
assistant, shearer's (silver		assistant, guard	702	attache (sewing machine)	279
and white metal)	285	assistant, head messenger (Post		attache, shoe	414
assistant, ship painter's	599	Office)	758	attache, sole	414
assistant (shop)	775	assistant, head postman	753	attache, wood heel	414
assistant, shop	775	assistant, holder-up	256	attache, accumulator	954
assistant, shopkeeper's		assistant, inspector	700	attendant, acid oil (mar-	
assistant, shoemaker's	947	assistant, inspector of		goring)	143
assistant, showman's	899	messengers (Post Office)	751	attendant, aerial sign	049
assistant, showrooms	775	assistant, inspector of postmen		attendant, aerial ropeway	049
assistant, silverer's (glass)	138	(Post Office)	751	attendant, agricultural steam	
assistant, smith's	279	assistant, keeper	041	engine	021
assistant, smith's shop	279	assistant, keeper	171	attendant, agricultural trac-	
assistant, smoke-room	929	assistant, lifeman	668	tion engine	021
assistant, spinner's	466	assistant, manageress (railway		attendant, arende	909
assistant, stender	354	catering)	929	attendant, art school	929
assistant, stenter's	354	assistant, master steward	740	attendant, ash plant	699
assistant, stock room (lace)	365	assistant, mixer	433	attendant, assistant switch-	
assistant, stock room (ware-		assistant, onsetter	043	board	954
houseman)	942	assistant, oreman	449	attendant, auto	279
assistant, storekeeper's	942	assistant, overlocker (jute)	396	attendant, automatic	279
assistant, stretcher	364	assistant, overseer (flax, hemp)	396	attendant, automatic machine	279
assistant, surveyor's	047	assistant, overseer (printing,		attendant, auto screw	279
assistant, taker	359	&c.)	521	attendant, auxiliary plant	950
assistant, temperer's	229	assistant, passenger guard	702	attendant, auxiliary plant	
assistant, test room	319	assistant, pitman	047	(electricity supply)	954
assistant, tile maker's	119	assistant, power loom over-		attendant, axle box	709
assistant, tool grinder's	049	looker	398	attendant, babies' (pear	
assistant, traffic machine	279	assistant, regulator (tramsways,		attendant, ballast train	702
assistant, traffic manager's	714	&c.)	714	attendant, band conveyor	
assistant, traffic (tramsways)	041	assistant, repairer	044	(seed crushing)	158
assistant, traveller's	518	assistant, resident engineer		attendant, barking machine	499
assistant, trimmer's	396	(electricity supply)	690	attendant, bar (public house)	915
assistant, turner's	596	assistant, rope maker	373	attendant, barrel polishing	279
assistant, turner's	596	assistant, secretary	939	attendant, bar (temperance	
assistant, undertaker's shop	925	assistant, shaftman	047	hotel)	929

	Code Number.		Code Number.		Code Number.
attendant, bat engine	378	attendant, covering machine	435	attendant, kneading table	446
attendant, bath	915	attendant, creche	929	(margarine)	446
attendant, bath (hydro)	919	attendant, crushing machine	364	attendant, ladies' waiting	929
attendant, bathing	919	attendant, crusher (chalk,	074	room	929
attendant, bathing machine	919	clay, etc.)	074	attendant, ladies' waiting	709
attendant, bathing place	919	attendant, crusher (metal	056	room (railway)	709
attendant, bathroom	919	mine)	056	attendant, landing	043
attendant, battery (electrical	954	attendant, cupola	047	attendant, ladder	901
accumulator)	954	attendant, cutting machine	279	attendant, lair	200
attendant, battery (metallifer-	058	attendant, dining car	929	attendant, lavatory	703
ous mine or working)	058	attendant, dining hall	929	attendant, lavatory, latrine)	923
attendant, battery (power	319	attendant, dining room	929	attendant, leading cloak room	706
station or G.P.O.)	319	attendant, disintegrator	104	attendant, leading ladies'	709
attendant, belt conveyor	089	attendant, dispensary (dentist's	929	waiting room	709
attendant, bending machine	276	or doctor's surgery)	929	attendant, leading lost pro-	706
attendant, between-drawings	363	attendant, door (road mine)	917	perty office	706
attendant, bleaching tank	449	attendant, door (textile	929	attendant, left luggage	706
(margarine)	449	attendant, dormitory	929	attendant, letter office	706
attendant, block	043	attendant, drawing frame	363	attendant, lift	737
attendant, bobbin machine	367	attendant, drawing frame	363	attendant, lift (ship)	737
attendant, book room	706	(drawing-in)	363	attendant, light and bell	311
attendant, both (rolling stock)	659	attendant, driller's	072	attendant, lime tank (sugar	449
attendant, bothy	929	attendant, drilling machine	200	refining)	449
attendant, box and slide	481	attendant, dry car hand	449	attendant, linen (hotel, etc.)	990
attendant, brake (tramway)	714	attendant, dry house	279	attendant, linen (railway)	706
attendant, brew plant	699	attendant, dusting machine	399	attendant, list room	706
attendant, buidie	056	attendant, dust shaker	399	attendant, lock-out calendar	448
attendant, buffet	929	attendant, dust shaker (flax,	362	attendant, liquor tank	399
attendant, butter rolling and	449	hemp)	362	attendant, loom	399
pricing	449	attendant, electric light	699	attendant, lost luggage	706
attendant, boiler	449	attendant, elevator (cement)	099	attendant, lost property office	706
attendant, boiler rolling	449	attendant, elevator (textile	757	attendant, machine (automatic	448
attendant, boiler (above	449	mill)	757	machine)	448
attendant, bobbin machine	367	attendant, emulsifying machine	639	attendant, machine (automatic	279
attendant, book room	706	attendant, engine plane and	054	machine)	279
attendant, both (rolling stock)	659	sliding	054	attendant, machine (card	225
attendant, bothy	929	attendant, enquiry office	709	clothing)	225
attendant, box and slide	481	attendant, exchange (Post	757	attendant, machine (power	254
attendant, brake (tramway)	714	office)	143	attendant, machine (printing)	330
attendant, brew plant	699	attendant, fax	699	attendant, machine (seed	138
attendant, buidie	056	attendant, fault (electricity	699	creasing)	138
attendant, buffet	929	supply)	699	attendant, machine (sugar	392
attendant, butter rolling and	449	attendant, female (P.O.	329	attendant, melanger (choco-	448
pricing	449	Medical Department)	329	late)	448
attendant, boiler	449	attendant, filter bed	899	attendant, mess room	929
attendant, boiler rolling	449	attendant, filter press (mar-	449	attendant, mid-day (special	929
attendant, boiler (above	449	garine)	449	school)	929
attendant, bobbin machine	367	attendant, flanging press	190	attendant, mill (chalk, clay,	074
attendant, book room	706	attendant, flight	049	etc.)	074
attendant, both (rolling stock)	659	attendant, due	095	attendant, mill (rolling mill)	212
attendant, bothy	929	attendant, front of roving	363	attendant, mineral spring	929
attendant, box and slide	481	attendant, fuller's earth (mar-	245	attendant, mixer (cement)	099
attendant, brake (tramway)	714	garine)	245	attendant, mixing machine	099
attendant, brew plant	699	attendant, fume plant	245	(abrasive wheels)	099
attendant, buidie	056	attendant, furnace (blast	279	attendant, mangle	449
attendant, buffet	929	furnace)	279	attendant, manufacturing	449
attendant, butter rolling and	449	attendant, furnace (cupola)	182	attendant, multiples (mar-	449
pricing	449	attendant, gas producer (gas	899	garine)	449
attendant, boiler	449	works)	899	attendant, nailing machine	499
attendant, boiler rolling	449	attendant, gas producer (pro-	363	attendant, night and Sunday	758
attendant, boiler (above	449	ducer gas)	363	telephone (Post Office)	758
attendant, bobbin machine	367	attendant, glazing machine	363	attendant, office (baths)	919
attendant, book room	706	attendant, Government De-	758	attendant, ore crusher	056
attendant, both (rolling stock)	659	partment)	758	attendant, outflow basin (mar-	449
attendant, bothy	929	attendant, governor house	699	garine)	449
attendant, box and slide	481	attendant, grainer	519	attendant, paraffin	148
attendant, brake (tramway)	714	attendant, green scale	143	attendant, peeling machine	449
attendant, brew plant	699	attendant, grille plant	143	(match boxes)	449
attendant, buidie	056	attendant, grinder	699	attendant, pig	024
attendant, buffet	929	attendant, grading machine	699	attendant, pillow	706
attendant, butter rolling and	449	attendant, grinding mill	699	attendant, pin cutting	279
pricing	449	attendant, grooving machine	699	attendant, plate	206
attendant, boiler	449	attendant, ground	699	attendant, plate planing	178
attendant, boiler rolling	449	attendant, guhr kiln	143	attendant, plate rolling	178
attendant, boiler (above	449	attendant, guhr mill	143	attendant, plodder (margarine	449
attendant, bobbin machine	367	attendant, hackle	279	lime)	449
attendant, book room	706	attendant, hatching machine	363	attendant, porters' room	706
attendant, both (rolling stock)	659	attendant, haul	706	attendant, petrol's	119
attendant, bothy	929	attendant, hay baler	621	attendant, poultry	039
attendant, box and slide	481	attendant, boost	757	attendant, press (prints,	159
attendant, brake (tramway)	714	attendant, bopper (margarine)	449	colours)	159
attendant, brew plant	699	attendant, hot room	241	attendant, press (sewage dis-	970
attendant, buidie	056	attendant, humidifier	399	posal)	970
attendant, buffet	929	attendant, hydraulic main	699	attendant, private baths	919
attendant, butter rolling and	449	attendant, hydraulic riveter	255	attendant, public baths	919
pricing	449	attendant, hydro (for dyeing)	319	attendant, public lighting	686
attendant, boiler	449	attendant, hydro (laundry)	319	attendant, pug mill (brick	929
attendant, boiler rolling	449	attendant, hydrogen bench	148	attendant, pug mill (oils	069
attendant, boiler (above	449	attendant, incline (coal mine)	043	attendant, pug mill (iron or	183
attendant, bobbin machine	367	attendant, incline (metal	054	steel foundry)	183
attendant, book room	706	mine)	054	attendant, pump	350
attendant, both (rolling stock)	659	attendant, indicator	703		
attendant, bothy	929	attendant, invalid's (poor law)	361		
attendant, box and slide	481	attendant, invalid's (poor law)	361		
attendant, brake (tramway)	714	attendant, jacking machine	362		
attendant, brew plant	699	attendant, jute crusher	098		
attendant, buidie	056	attendant, kiln	703		
attendant, buffet	929	attendant, Kilton and Empires	703		
attendant, butter rolling and	449	light	703		
pricing	449				

Code Number.	Code Number.	Code Number.			
attendant, pump (china clay, do., quarry)	074	attendant, pump (china clay, do., quarry)	074	attendant, pump (china clay, do., quarry)	074
attendant, punch machine (furnace)	279	attendant, punch machine (furnace)	279	attendant, punch machine (furnace)	279
attendant, purifier	258	attendant, purifier	258	attendant, purifier	258
attendant, pyrometer (foundry) and steel	171	attendant, pyrometer (foundry) and steel	171	attendant, pyrometer (foundry) and steel	171
attendant, pyrometer (pot- tery)	329	attendant, pyrometer (pot- tery)	329	attendant, pyrometer (pot- tery)	329
attendant, racer's	499	attendant, racer's	499	attendant, racer's	499
attendant, reaping machine	021	attendant, reaping machine	021	attendant, reaping machine	021
attendant, receiving office	773	attendant, receiving office	773	attendant, receiving office	773
attendant, recorder (elec- tricity, gas)	593	attendant, recorder (elec- tricity, gas)	593	attendant, recorder (elec- tricity, gas)	593
attendant, recorder (elec- tricity sub-station)	354	attendant, recorder (elec- tricity sub-station)	354	attendant, recorder (elec- tricity sub-station)	354
attendant, refining machine (beehive)	443	attendant, refining machine (beehive)	443	attendant, refining machine (beehive)	443
attendant, refrigerating plant	159	attendant, refrigerating plant	159	attendant, refrigerating plant	159
attendant, reservoir (canal)	749	attendant, reservoir (canal)	749	attendant, reservoir (canal)	749
attendant, reservoir (electric- ity supply and waterworks)	919	attendant, reservoir (electric- ity supply and waterworks)	919	attendant, reservoir (electric- ity supply and waterworks)	919
attendant, retort (shale)	142	attendant, retort (shale)	142	attendant, retort (shale)	142
attendant, ring	819	attendant, ring	819	attendant, ring	819
attendant, roller (colliery)	619	attendant, roller (colliery)	619	attendant, roller (colliery)	619
attendant, rolling mill	212	attendant, rolling mill	212	attendant, rolling mill	212
attendant, roasting machine	499	attendant, roasting machine	499	attendant, roasting machine	499
attendant, sagger maker's	113	attendant, sagger maker's	113	attendant, sagger maker's	113
attendant, saloon (railway)	702	attendant, saloon (railway)	702	attendant, saloon (railway)	702
attendant, school playground	929	attendant, school playground	929	attendant, school playground	929
attendant, screen (colliery)	043	attendant, screen (colliery)	043	attendant, screen (colliery)	043
attendant, screen (stone mine or quarry)	072	attendant, screen (stone mine or quarry)	072	attendant, screen (stone mine or quarry)	072
attendant, screen (tar mac- adam)	099	attendant, screen (tar mac- adam)	099	attendant, screen (tar mac- adam)	099
attendant, screw	099	attendant, screw	099	attendant, screw	099
attendant, screwing machine	200	attendant, screwing machine	200	attendant, screwing machine	200
attendant, scrubber yard (gas works)	693	attendant, scrubber yard (gas works)	693	attendant, scrubber yard (gas works)	693
attendant, scum mix (sugar refining)	449	attendant, scum mix (sugar refining)	449	attendant, scum mix (sugar refining)	449
attendant, seacoast	639	attendant, seacoast	639	attendant, seacoast	639
attendant, seat	329	attendant, seat	329	attendant, seat	329
attendant, shaft grinding ma- chine	237	attendant, shaft grinding ma- chine	237	attendant, shaft grinding ma- chine	237
attendant, shoring machine	279	attendant, shoring machine	279	attendant, shoring machine	279
attendant, shoring	775	attendant, shoring	775	attendant, shoring	775
attendant, siding	054	attendant, siding	054	attendant, siding	054
attendant, skillets machine	486	attendant, skillets machine	486	attendant, skillets machine	486
attendant, sleeping car	702	attendant, sleeping car	702	attendant, sleeping car	702
attendant, slide machine (mach boxes)	489	attendant, slide machine (mach boxes)	489	attendant, slide machine (mach boxes)	489
attendant, slide's seat	279	attendant, slide's seat	279	attendant, slide's seat	279
attendant, softening and filter	099	attendant, softening and filter	099	attendant, softening and filter	099
attendant, special pump	054	attendant, special pump	054	attendant, special pump	054
attendant, spewing machine	602	attendant, spewing machine	602	attendant, spewing machine	602
attendant, splint machine	496	attendant, splint machine	496	attendant, splint machine	496
attendant, spreadboard	363	attendant, spreadboard	363	attendant, spreadboard	363
attendant, spreading machine	380	attendant, spreading machine	380	attendant, spreading machine	380
attendant, squarer	056	attendant, squarer	056	attendant, squarer	056
attendant, stamp	950	attendant, stamp	950	attendant, stamp	950
attendant, stamping engine	158	attendant, stamping engine	158	attendant, stamping engine	158
attendant, stamping machine	449	attendant, stamping machine	449	attendant, stamping machine	449
attendant, starch mill	443	attendant, starch mill	443	attendant, starch mill	443
attendant, starch stove	021	attendant, starch stove	021	attendant, starch stove	021
attendant, steam collector	021	attendant, steam collector	021	attendant, steam collector	021
attendant, steam plough	255	attendant, steam plough	255	attendant, steam plough	255
attendant, steam riveter	021	attendant, steam riveter	021	attendant, steam riveter	021
attendant, still (colliery) shale burning)	142	attendant, still (colliery) shale burning)	142	attendant, still (colliery) shale burning)	142
attendant, still fire	142	attendant, still fire	142	attendant, still fire	142
attendant, stone crusher	056	attendant, stone crusher	056	attendant, stone crusher	056
attendant, stove	921	attendant, stove	921	attendant, stove	921
attendant, straw press	096	attendant, straw press	096	attendant, straw press	096
attendant, street light	449	attendant, street light	449	attendant, street light	449
attendant, sugar mill	141	attendant, sugar mill	141	attendant, sugar mill	141
attendant, sulphate plant	619	attendant, sulphate plant	619	attendant, sulphate plant	619
attendant, swimming bath	919	attendant, swimming bath	919	attendant, swimming bath	919
attendant, syphon (gas works)	693	attendant, syphon (gas works)	693	attendant, syphon (gas works)	693
attendant, tank (sugar refin- ing)	449	attendant, tank (sugar refin- ing)	449	attendant, tank (sugar refin- ing)	449
attendant, tape	769	attendant, tape	769	attendant, tape	769
attendant, taping machine	499	attendant, taping machine	499	attendant, taping machine	499
attendant, tapping machine	200	attendant, tapping machine	200	attendant, tapping machine	200
attendant, tar and liquor plant (gas works)	899	attendant, tar and liquor plant (gas works)	899	attendant, tar and liquor plant (gas works)	899
attendant, tar plant	143	attendant, tar plant	143	attendant, tar plant	143
attendant, tar recovery (mineral oil refining)	149	attendant, tar recovery (mineral oil refining)	149	attendant, tar recovery (mineral oil refining)	149
attendant, tar tower (gas works)	699	attendant, tar tower (gas works)	699	attendant, tar tower (gas works)	699
attendant, taylor	259	attendant, taylor	259	attendant, taylor	259
attendant, test house machine	177	attendant, test house machine	177	attendant, test house machine	177
attendant, theatre	889	attendant, theatre	889	attendant, theatre	889
attendant, threshing machine	021	attendant, threshing machine	021	attendant, threshing machine	021
attendant, thresher's	119	attendant, thresher's	119	attendant, thresher's	119
attendant, tide gauge	749	attendant, tide gauge	749	attendant, tide gauge	749
attendant, tin frame	056	attendant, tin frame	056	attendant, tin frame	056
attendant, train	702	attendant, train	702	attendant, train	702
attendant, train indicating board	706	attendant, train indicating board	706	attendant, train indicating board	706
attendant, train information	709	attendant, train information	709	attendant, train information	709
attendant, training stable	889	attendant, training stable	889	attendant, training stable	889
attendant, trolley (tramways)	714	attendant, trolley (tramways)	714	attendant, trolley (tramways)	714
attendant, tube (Post Office, do.)	769	attendant, tube (Post Office, do.)	769	attendant, tube (Post Office, do.)	769
attendant, Turkish bath	919	attendant, Turkish bath	919	attendant, Turkish bath	919
attendant, turner's	113	attendant, turner's	113	attendant, turner's	113
attendant, turnstile	609	attendant, turnstile	609	attendant, turnstile	609
attendant, vacuum boiler (margarine)	449	attendant, vacuum boiler (margarine)	449	attendant, vacuum boiler (margarine)	449
attendant, van	723	attendant, van	723	attendant, van	723
attendant, van (railway)	706	attendant, van (railway)	706	attendant, van (railway)	706
attendant, waiting room	929	attendant, waiting room	929	attendant, waiting room	929
attendant, warp mill	367	attendant, warp mill	367	attendant, warp mill	367
attendant, washer (gas works)	693	attendant, washer (gas works)	693	attendant, washer (gas works)	693
attendant, washer's (sugar refining)	449	attendant, washer's (sugar refining)	449	attendant, washer's (sugar refining)	449
attendant, washing machine	918	attendant, washing machine	918	attendant, washing machine	918
attendant, washing tables	278	attendant, washing tables	278	attendant, washing tables	278
attendant, washing tank (margarine)	449	attendant, washing tank (margarine)	449	attendant, washing tank (margarine)	449
attendant, wash mill (arti- ficial stone)	099	attendant, wash mill (arti- ficial stone)	099	attendant, wash mill (arti- ficial stone)	099
attendant, washmill (cement)	099	attendant, washmill (cement)	099	attendant, washmill (cement)	099
attendant, wash-off sock (sugar refining)	449	attendant, wash-off sock (sugar refining)	449	attendant, wash-off sock (sugar refining)	449
attendant, water (electricity supply)	699	attendant, water (electricity supply)	699	attendant, water (electricity supply)	699
attendant, water softening plant (electricity supply)	699	attendant, water softening plant (electricity supply)	699	attendant, water softening plant (electricity supply)	699
attendant, weighbridge	056	attendant, weighbridge	056	attendant, weighbridge	056
attendant, workhouse (female inmate)	929	attendant, workhouse (female inmate)	929	attendant, workhouse (female inmate)	929
attendant, wringer	918	attendant, wringer	918	attendant, wringer	918
suctioneer	796	suctioneer	796	suctioneer	796
suctioneer, cattle	796	suctioneer, cattle	796	suctioneer, cattle	796
suctioneer, fish	796	suctioneer, fish	796	suctioneer, fish	796
suctioneer, live stock	796	suctioneer, live stock	796	suctioneer, live stock	796
measurer and surveyor attestee's balliff	989	measurer and surveyor attestee's balliff	989	measurer and surveyor attestee's balliff	989
suctioneer's labourer	939	suctioneer's labourer	939	suctioneer's labourer	939
audit clerk	939	audit clerk	939	audit clerk	939
audit clerk, junior	939	audit clerk, junior	939	audit clerk, junior	939
audit clerk, senior	939	audit clerk, senior	939	audit clerk, senior	939
auditor	939	auditor	939	auditor	939
auditor, bank	791	auditor, bank	791	auditor, bank	791
auditor, insurance	699	auditor, insurance	699	auditor, insurance	699
auger (gas)	190	auger (gas)	190	auger (gas)	190
auger striker	939	auger striker	939	auger striker	939
authorized clerk (Stock Ex- change)	939	authorized clerk (Stock Ex- change)	939	authorized clerk (Stock Ex- change)	939
auto attendant	279	auto attendant	279	auto attendant	279
auto-car driver	101	auto-car driver	101	auto-car driver	101
auto-car guard	101	auto-car guard	101	auto-car guard	101
auto-carrier driver	101	auto-carrier driver	101	auto-carrier driver	101
auto-clave man	158	auto-clave man	158	auto-clave man	158
autograph artist	528	autograph artist	528	autograph artist	528
automatic arranger and esti- mator (gas company)	939	automatic arranger and esti- mator (gas company)	939	automatic arranger and esti- mator (gas company)	939
automatic attendant	279	automatic attendant	279	automatic attendant	279
automatic body former	254	automatic body former	254	automatic body former	254
automatic clock maker	243	automatic clock maker	243	automatic clock maker	243
automatic lock maker	243	automatic lock maker	243	automatic lock maker	243
automatic loom weaver	370	automatic loom weaver	370	automatic loom weaver	370
automatic machine attendant	279	automatic machine attendant	279	automatic machine attendant	279
automatic machine feeder	279	automatic machine feeder	279	automatic machine feeder	279
automatic machine filter	279	automatic machine filter	279	automatic machine filter	279
automatic machine minder	279	automatic machine minder	279	automatic machine minder	279
automatic machine operator	279	automatic machine operator	279	automatic machine operator	279
automatic machine repairer	244	automatic machine repairer	244	automatic machine repairer	244
automatic machine setter	211	automatic machine setter	211	automatic machine setter	211
automatic machinist	279	automatic machinist	279	automatic machinist	279
automatic meter collector	789	automatic meter collector	789	automatic meter collector	789
automatic screw machine hand	374	automatic screw machine hand	374	automatic screw machine hand	374
automatic seamless machine hand	374	automatic seamless machine hand	374	automatic seamless machine hand	374
automatic spooler	371	automatic spooler	371	automatic spooler	371
automatic weighing machine maker	269	automatic weighing machine maker	269	automatic weighing machine maker	269
automatic wire drawer	269	automatic wire drawer	269	automatic wire drawer	269
auto operator	269	auto operator	269	auto operator	269
auto screw attendant	279	auto screw attendant	279	auto screw attendant	279
auto screw machine operator	279	auto screw machine operator	279	auto screw machine operator	279
auxiliary plant attendant	950	auxiliary plant attendant	950	auxiliary plant attendant	950
auxiliary plant attendant (electricity supply)	954	auxiliary plant attendant (electricity supply)	954	auxiliary plant attendant (electricity supply)	954
auxiliary porter (Post Office)	753	auxiliary porter (Post Office)	753	auxiliary porter (Post Office)	753
auxiliary postman	753	auxiliary postman	753	auxiliary postman	753
auxiliary sorter	753	auxiliary sorter	753	auxiliary sorter	753
average adjuster	799	average adjuster	799	average adjuster	799
average stater	799	average stater	799	average stater	799
aviation mechanic	638	aviation mechanic	638	aviation mechanic	638
aviator mechanic (engine)	752	aviator mechanic (engine)	752	aviator mechanic (engine)	752
axeman	016	axeman	016	axeman	016
axe spreader	180	axe spreader	180	axe spreader	180
axe assembler	279	axe assembler	279	axe assembler	279
axe bearing fitter	183	axe bearing fitter	183	axe bearing fitter	183
axe bender	180	axe bender	180	axe bender	180
axe box attendant	719	axe box attendant	719	axe box attendant	719
axe box carrier	180	axe box carrier	180	axe box carrier	180
axe box cleaner	719	axe box cleaner	719	axe box cleaner	719
axe box dresser	183	axe box dresser	183	axe box dresser	183
axe box drill	210	axe box drill	210	axe box drill	210
axe box finisher	278	axe box finisher	278	axe box finisher	278
axe box fitter	210	axe box fitter	210	axe box fitter	210
axe box layer	200	axe box layer	200	axe box layer	200
axe box machinist	200	axe box machinist	200	axe box machinist	200
axe box miller	200	axe box miller	200	axe box miller	200
axe box planer	200	axe box planer	200	axe box planer	200
axe box screwer	200	axe box screwer	200	axe box screwer	200
axe box					

	Code Number.		Code Number.		Code Number.
backer (linoleum, etc.)	639	back tenter, intermediate	399	bag maker, sleeping	466
backer (paper making)	310	frame (fly frame)	599	bag maker, travelling	345
backer (precious metals)	239	back tenter, linen machine	399	bagman	759
backer, professional	690	back tenter, little	519	bagman (concrete)	089
backer, roll mill	178	back tenter, machine (textile printing)	399	bagman (Post Office)	759
backer (rolling mill)	178	back tenter (paper mill)	518	bagman, senior	759
backer, saw	279	back tenter (paper staining)	549	bag marker	949
backer (saw)	279	back tenter, roller	399	bag mender	417
backer, shirt	910	back tenter, roving	399	bag mender, male	417
backer, spindle (rolling mill)	178	back tenter, roving frame	399	bag packer	943
backer, spindle (textile machinery)	210	back tenter (textile printing)	399	bag patcher	417
backer-up (electrotyping)	524	back tenter man (textile printing)	399	bag picker (cotton room)	399
backer-up (gramophone record)	646	back tongman	178	bag printer	429
backer-up (iron and steel tubes)	279	back washer	363	bag repairer	417
backer-up (rolling mill)	178	back washer minder	363	bag riveter	345
backer-up (saw-mill)	499	backwash minder	363	bag room boy	119
back filler (cloth)	393	bacon curer	437	bag shaker	429
back filler (furniture finishing)	304	bacon cutter	448	bag sorter	099
back filling mangle	393	bacon dryer	437	bag sticher (leather)	345
back Ell mangle	393	bacon roller	448	bag sticher (sack making)	417
back finisher (plate or sheet mill)	178	bacon smoker	437	bag sticher (warehouse)	419
back fixer (piano, organ)	498	bacon sorter	437	bag tank man (sugar)	449
back fixer (saw)	279	bacon washer	448	bag tender	949
back fixer, saw	279	badge porter	759	bag worker	245
back girl (Swiss embroidery—dress)	429	badge (glass)	126	bailer (oil wells)	580
back girl (Swiss embroidery—lase)	376	badge, glass	126	bailiff, auctioneer's	939
back grinder	364	badge, water	954	bailiff, broker's	939
backheader (angle iron smith's)	279	badminton racquet stringer	688	bailiff (coal mine)	441
backheader, angle iron smith's	279	bagette board maker	688	bailiff, drainage	010
backheader, angle iron smith's	279	bag-blue tier	949	bailiff, estate	010
backheader (shipbuilding)	190	bag bander	429	bailiff (farm)	010
back hole stopper	279	bag carrier (cement, etc.)	709	bailiff, farm	010
back hooker, finishing	178	bag carrier (dock)	745	bailiff, land	010
back hooker (rolling mill)	178	bag clamp maker	618	bailiff, landlord's	989
back hook finisher	390	bag cleaner	425	bailiff, marsh	015
back house boy	390	bag collector	719	bailiff, rent	989
backing-out porior	704	bag cutter, canvas	342	bailiff, reservoir	036
back jobber	384	bag cutter (leather)	342	bailiff, riveter	914
back lighter	047	bag danner	417	bailiff, water (dock official)	731
back lighter	047	bag dryer	449	bailiff, water (dock watchman)	740
back liner	532	bag feeder, paper	553	bailiff, water (paper mills)	518
back maker, camera	473	bag filler	949	bailiff, water (pyrate fisheries)	910
back maker (chair)	473	bag filler, coal	970	bailiff, wood	016
back maker, gun store	102	bag fitter, inner	606	baiter (concrete)	406
back maker, silk	118	bag fitter (silk)	399	baiter (bag)	406
back maker, photographic	473	bag frame fitter	278	baiter (tailoring)	404
back maker (piano, organ)	498	bag framer	278	baiter-in	404
back maker, saw	279	bag frame riveter	279	baiter-out	404
back maker (saw)	279	bag framer, riveted	345	baiter-puller	404
back maker, scythe	190	baggage clerk	929	baiter-tender	429
back maker, sock store	199	baggage inspector (on shore)	739	bait dagger	404
back maker, stove	162	baggage inspector (railway)	700	bait maker	989
back maker (vat)	477	baggage inspector (ship)	731	bait maker, artificial	889
back maker's striker (scythe)	190	bagman	731	bait painter	889
back minder (flax, jute)	399	baggage master (on board)	737	bait maker, oil	639
back minder (candling, drawing, finishing)	399	baggage master (on shore)	759	baited cherting man	777
back minder, stretching machine	389	bagger	949	baker (artificial test)	169
back overman (coal mine)	041	bagger (boots)	414	baker (bread, etc.)	433
back overman (metal mine)	051	bagger, cake (oilcake)	949	baker, biscuit	433
back picker	519	bagger (concrete)	970	baker, bristle	839
back ripper	044	bagger, soil	389	baker, cake	433
back roller	178	bagger (sewing machinist)	419	baker, crumpet	433
back room man	458	bagger (silk)	399	baker (curled hair)	399
back rougher	178	bagger (tailoring)	404	baker (dealer)	770
back rover	399	bagger, tobacco	949	baker, hand biscuit	433
back sewer	279	bagger-up (bolts)	949	baker and confectioner	433
back swimmer	279	bagging machine operator	414	baker and confectioner (retailer)	770
back sawyer (iron and steel rolling)	279	bagging-off man	549	baker and pastrycook	770
back shift overman	041	bag band (paper bag making)	553	baker, Jewish bread	433
back side band	041	bag band (sack making)	417	baker maker	105
back side backer-over	178	bag binder (grain milling)	445	baker maker, earthenware	165
back side labourer	279	baghouse man (lead extraction)	279	baker, machine	433
back sticher	396	bag liner	345	baker, mangle	433
back starob filler	396	bag machinist (leather)	345	baker, muffin	433
back stitchee	496	bag machinist (sack making)	417	baker, oat cake	433
back stopper	279	bag maker, black	518	baker, parkin	433
back stopper	279	bag maker, carpet	880	baker, pie	433
back tenter, assistant	042	bag maker, cricket	345	baker, pikelet	433
back tenter, big	549	bag maker, kite	345	baker, plaster	092
back tenter (bottom carding)	399	bag maker, ladies' band	345	baker, scum	433
back tenter (felt carding)	399	bag maker (leather)	345	baker (ship)	433
back tenter (floorcloth)	839	bag maker, mail	417	baker's assistant (bakeryhouse)	433
back tenter (fly frame)	399	bag maker, mesh (gold and silver)	264	baker's assistant (shop)	775
back tenter, intermediate box (fly frame)	399	bag maker, nail	417	baker's barrowman	778
		bag maker (not leather)	419	baker's bar	758
		bag maker, paper	553	baker's peel maker	496
		bag maker (sack making)	417	baker's vanguard	776
		bag maker, sand	417	baking powder maker	448

Code Number.		Code Number.		Code Number.	
beam sorter	638	battery worker	656	bearing fitter	210
beam trimmer	539	battledore maker	688	bearing reamer	210
beater (corset making)	406	battolot (G.P.O.)	755	bearing runner	279
beater (tailoring)	404	bauxite grinder	149	bearing fitter, brass	210
beater carrier	605	bauxite millman	148	bear puncher	231
beater (craft worker)	390	bay in bolder (firewood)	459	beastman	638
beater (finishing)	399	bayin maker	459	beater, bag	909
beater (flax and hemp)	398	bayman (steel works)	279	beater (carpets)	923
beater (jute)	390	bayonet blade forger	190	beater (cement)	699
beater-up (finishing)	399	bayonet blade roller	178	beater, dry (wool finishing)	384
beater foreman	121	bayonet brouwer	278	beater, feather	632
beater labourer	129	bayonet cutter	228	beater (feather dressing)	638
beater mixer	138	bayonet forger	190	beater, fire	951
beater miner's labourer	398	bayonet grip maker	490	beater (fur skins)	338
beater roller	390	bayonet mallet	290	beater, gold	236
beaterman	333	bayonet sand blaster	259	beater, gold and silver	296
beat engine attendant (textile works)	378	bayonet setter	278	beater (gun cotton)	143
beater (colliery)	344	bayonet socket machinist	280	beater, leaf	254
beater (beaver)	042	beach labourer	730	beater, panel	512
beater (leather dressing)	333	beachman	738	beater, rag	989
beate shaver	338	bead and bugle maker	124	beater, sack	381
beate worker	332	bead and bugle stringer	639	beater, sett	264
beate attendant	919	bead and spangle sewer	407	beater (sheet metal)	352
beate attendant (hydro)	919	beader, body	498	beater (silk)	529
beate attendant, swimming	919	beader, boots and shoes	498	beater, silver	599
beate attendant, Turkish	919	beader (carriages and coaches)	498	beater, tin foil	178
beate brick maker	090	beader (embroiderer)	407	beater, welt	414
beate chair attendant	729	beader (sheet metal)	254	beater (wool finishing)	384
beate chair drawer	729	beader (tin boxes, etc.)	254	beaterman (asbestos)	512
beate chair driver, donkey	729	beading roller (sheet metal)	254	beaterman (celluloid)	148
beate chair letter	729	beading maker (wood)	929	beaterman (paper, card and pasteboard)	512
beate chair maker	475-6	beading, arcade	929	beaterman, spare	512
beate chair maker (wicker)	472	beadle (hospital, &c.)	929	beaterman's assistant	519
beate chair man	729	bead maker (gold and silver)	284	beater-out (beats)	429
beate chair painter	593	bead trimmer	407	beater's assistant	519
beate chair proprietor	729	bead worker	407	beater-up	468
beate chair proprietor, donkey	729	bead worker, fancy	407	beater-up, tobacco (hand)	468
beate fitter	278	beagle driver	041	beater-up, tobacco (machine)	469
beating attendant	919	beam carrier	399	beater	398
beating machine attendant	919	beam changer	398	beauty doctor	320
beating plate attendant	919	beam erector	222	beauty specialist	920
beate keeper	498	beamer, chain	367	beaverden cutter	350
beate maker	105	beamer (finishing)	367	beck dyer	361
beate maker, earthenware	105	beamer (grey cloth)	367	becker (craft worker)	380
beate man (attendant)	919	beamer, lace	367	becker (dyer)	381
beathman (beacon caring)	437	beamer, machine lace	367	becker, tyre	190
beate painter	392	beamer, Scotch	367	becker, bannerman	190
beathroom attendant	315	beamer, section	367	beck man	143
beath attendant, private	919	beamer (shipyard)	367	beck man, wash	148
beath stone miner	672	beamer (textile weaving)	367	beck water	189
beath stone quarrier	072	beamer, warp	367	bedder and fitter	929
beath tender, acid	361	beamer, white piece	398	bedder (college)	929
beath worker, acid	126	beamer (wire)	279	bedder (fitter)	210
beil maker	118	beamer (wool finishing)	384	bedder (pottery)	190
beil maker, cricket	498	beamer (yarn dyeing)	290	bedding cleaner	502
beil picker (blast furnace)	279	beam fitter	290	bedding maker	502
beil picker (colliery)	049	beam fitter, scale	290	bed frame maker	473
beaten maker	486	beam danger	210	bed frame maker (mattress frame)	474
batter (brick)	102	beam forger	190	bed maker, air	908
batter (feld)	378	beam hoister	222	bed maker (bedding)	502
batter, fell	278	beaming bed	399	bed maker (domestic)	502
batter, glasses	378	beaming machine moulder	367	bed maker, feather	502
batter, plate (wire drawing)	278	beam fitter	367	bed maker, water	600
batter (pottery)	119	beam maker, agate	290	bed maker (wood)	473
batter (silk)	334	beam maker, carrier's	498	bedman (blast furnace)	279
batterer (fish-books)	278	beam maker (metal)	210	bed man, blue	148
batterer, plate (wire drawing)	278	beam maker (pinno)	498	bed man, white lead	149
batterer (wire drawing)	278	beam maker, scale	290	bed man (white lead)	149
beaterman	119	beam maker (sheet metal)	264	bedroom stewardess	737
beater-out	119	beam maker (shipbuilding)	222	bedroom stewardess	737
batten-out, sagger	118	beam maker (textile machinery)	486	bedroom fitter	278
batten-out (sagger)	118	beam maker, wood	486	bedroom fitter (wood)	473
batten-up, plank	384	beam man (pinno)	486	bed woman, blue	148
batten-up, plank	384	beam man (tannery)	338	bed woman (white lead)	149
battery attendant (electrical accumulator)	954	beam plater	222	bed worker, blue	148
battery attendant (metalliferous mine or works)	058	beam setter	367	beef picker	443
battery attendant (power station or G.P.O.)	319	beamsman	338	beebie maker (straw)	472
battery boy	047	beam turner (textile machinery)	209	beekeeper	839
battery carrier	047	beam turner (textile machinery—wood)	486	beekeeper's expert	039
battery case bender	019	beam warper	367	beer can maker	454
battery case cementer	619	beam wheel	399	beer case or stand maker	474
battery sifter	359	beam wheel-out	399	beer case or stand repairer	474
battery fitter	302	beam winder	367	beerhouse keeper	914
battery furnace, storage	302	beam welder	149	beer machine case fitter	483
battery hand	954	beam man	159	beer maker, beer	914
battery maker	302	beam splitter	448	beer retailer	914
battery maker, electric	318	beam breaker	279	beer wax bleacher	159
battery maker, primary	318	bearder	278	beer wax roller	159
battery maker, secondary	318	bearding machine man	278	beetle cutter	480
battery maker, storage	304	beater	325	beetle maker	488
battery man	304	beater boy	325	beetle, beetle	994
battery man (power station or G.P.O.)	319	beater, chain (coal mine)	647	beetle, chain	994
battery watcher	056	beater, chain (general labourer)	970	beetle, foreman	359
		beater, clay	119	beetle's edder	359
		beater-up	178	beetle's porter	359

	Code Number.		Code Number.		Code Number.
beating machine tender	384	bench cleaner	279	bender, wire (textile ma-	278
beatator	398	bench cleaner, driller's	279	chinery)	278
behander	178	bench cleaner, straightener	279	bender, wire (vehicles)	278
behinder, cold roll	279	bencher, brass head	243	bender (wood)	488
behinder, mill	178	bencher (glass)	179	bender, wood	498
behinder (tintplate)	178	bencher (heaver)	042	bender, wood hoop	277
behinder (tube and pipe		bencher (incline attendant)	043	bender's assistant, pipe	479
making)	279	bencher (scientific instruments)	322	bending machine attendant	278
Belgian machine hand	409	bencher (stoneman)	044	bend maker	339
bell assembler	279	bencher, thrower's	119	bend wader	498
bell boror	208	bencher (tubes)	266	bend timber maker	498
bell boy	377	bench band (boot making and		bent timber man	498
bell caster	188	repairing)	429	bent wood furniture maker	478
bell chaser	185	bench band (cabinet making)	499	bent wood maker (coach)	498
bell engraver	278	bench band (electrical appara-		bent wood worker	498
bell founder	180	tus)	313	benture collar maker	142
bell founder's labourer	185	bench band (metal trades)	279	benture degreaser	158
bell-hanger	278	bench band (newsprint)	942	benture distiller	142
bell hanger, church	278	bench band (patent roofing)	226	benture extractor	142
bell indicator maker	309	bench band, painter's	152	benture maker	142
bell lowerer (blast furnaces)	279	bench band (printer's)	548	benture maker, crude	142
bell maker (brass musical		bench band, saw	279	benture maker, refined	142
instrument)	264	bench band (wire works)	278	benture man	142
bell maker (cycle bell)	279	bench band (wood-working)	474	benture man, crude	143
bell maker (electric)	309	bench inspector (rolling mill)	278	benture operator	143
bell maker, electric	309	bench maker	474	benture plant man	143
bell man (blast furnace)	278	benchman (boot making and		benture rectifier	143
bellman (mines)	305-7	repairing)	429	benture refiner	142
bellman, signal	043	bench man (cabinet making)	499	benture stillman	142
bell minder	278	bench man (chemical)	143	benture washer	143
bell moulder	180	benchman (coke works)	369	berth cleaner	970
bellows fitter (reed organ,		bench man, cold	279	berther, wagon	794
etc.)	648	bench man, hot	279	berthing man	741
bellows band (pipe organ)	648	bench man (wood-working)	474	berthing master	731
bellows maker	498	bench moulder	180	bertram maker	498
bellows maker, gas meter	348	bench stamper	286	bertram converter man	170
bellows maker (harmonium)	498	bench tester	278	bertram pit banker	250
bellows maker (pipe organ)	648	bench worker (newsprint)	942	Bessmer's weigher's mixer	278
bellows maker (reed organ,		bench worker (scientific instru-		best glider	282
harmonium)	648	ments)	322	best outfit man	143
bellows man	279	bender, accumulator case	619	Betty Dodd mangle	384
bellows tender	309	bender, angle iron	190	between-drawings attendant	363
bell push maker	801	bender, axle	190	between maid	800
bell ringer	886	bender, battery case	619	bevel gear cutter	200
bell sealer	185	bender (bedstead)	190	beveler, card	558
bell scower and cleaner	258	bender (boiler plates)	222	beveler glass	127
bell spinner (brass musical		bender (boot and shoe plates,		beveler (glass)	127
instruments)	247	clog iron)	278	beveler, pattern card	358
bell tuner	378	bender (cardboard boxes)	558	beveler (roller)	178
bell yoke	498	bender, clog iron	278	beveler (stereotype, etc.)	548
belly maker	498	bender, coil	279	beveler, top piece	429
belly man	338	bender, copper (generators,		beveler (tubes)	278
belly roller	338	etc.)	479-6	bhandary	770
belly striker	330	bender, felle	345	bible depot keeper	770
belt boy (below ground)	047	bender, fibre suit case	278	Bible Society's agent	770
belt boy (surface)	048	bender, fish hook	222	bib maker (babes)	419
belt clamp and chainlink		bender, frame	138	bi-carbonate of soda maker	229
maker	284	bender, gas	138	bier maker	474
belt cleaner	054	bender, glass	278	big back tender	365
belt conveyor attendant	099	bender, handle bar	477	big spinner	365
belt coverer	602	bender, hoop	477	big tender	363
belt coverer, balata	602	bender, hoop stick	190	biposter, gold and silver	294
belt cutter	342	bender, iron	278	bill broker	799
belt (forks and spades)	233	bender, link (chain)	608	bill clerk	939
belt finisher, balata	608	bender, mouthpiece (pipes)	278	bill cutter, shoe	254
belt folder	429	bender, pipe (metallic bed-		bill cutter, sparrow	254
belt hand	048	steads)	251	bill damper	279
belting maker	608	bender, pipe (shipbuilding)	222	bill deliverer	970
belting maker, india rubber	608	bender, plate (boiler making)	190	bill discounter	799
belting maker, rubber	641	bender, plate (plate mill)	223	bill distributor	970
belt inspector	374	bender, plate (ship building)	278	bill breaker	279
belt knitter	374	bender, rail (metallic bed-		bill cutter's labourer	278
belt lad (coal mine—below		steads)	278	bill marker	386
ground)	047	bender, rim (cycle or peram-		bill pile	279
belt lad (coal mine—surface)	049	bulator wheel)	278	bill wheeler	279
belt lad (metallic mine or		bender, rim (wood)	475-6	bill hook handler	279
working)	056	bender (rolling mill, safe, etc.)	190	bill hook maker	190
belt lowerer	343	bender, scythe back	478	billiard ball maker	612
belt maker	608	bender, second (clog iron)	278	billiard ball polisher	612
belt maker, balata	419	bender, shaft	278	billiard ball turner	612
belt maker, body	348	bender, ship frame	278	billiard cue maker	498
belt maker, leather	638	bender, shoe tip	190	billiard marker	899
belt maker, life	419	bender, stoke	475-6	billiard player, professional	899
belt maker (net leather)	633	bender, spoke	475-6	billiard table cushion maker	608
belt maker, surgical	039	bender, steel (concrete ship-		billiard table filter-up	608
belt man (cane oven)	049	building)	278	billiard table maker	612
belt man (colliery)	343	bender (nick making)	498	billiard table maker (not theatre, etc.)	779
belt man (leather)	343	bender, spiral	278	bill inspector, shoe	700
belt man, machine	090	bender, timber	498	bill maker	190
belt mender	343	bender, tree (spades and		bill maker, shoe	254
belt piecer	343	shovels)	498	bill maker, sparrow (forging)	190
belt presser	608	bender, tube	278	bill maker, sparrow (stamping)	254
belt repairer (leather)	343	bender (tubes)	278		
belt repairer (polishing belt)	099	bender, umbrella rib	278		
belt tender	047	bender, wheel rim	190		
bench attendant, hydrogen	146	bender, wheel spoke	190		
bench boy	139	bender, wire (aeroplane)	279		

	Code Number.		Code Number.		Code Number.
ball poster	989	basin	171	blade hammerman (machinist)	190
ball poster (employer)	175	basque tile maker	106	blade hand forger	190
ballposting agent	779	bas washer	284	blade hardener	220
ballposting contractor	779	bat finisher	109	blade power forger	190
ballposting expert	779	bat forger, brass (fender mak- ing)	190	blade roller, bayonet	178
ballposting inspector	700	bat forger, carb	190	blade roller, sword	178
ball sticker	989	bat maker (harness)	190	blade roller	210
balley boy	949	bat maker (wood forger)	190	blade, turbine	210
balley check	949	bat maker (weaver)	370	blade smith (cutlery)	190
balleyer, blue	279	bat maker (winder)	387	blade stamper, grooved (forged)	190
balley man	365	bitter (boots)	429	blade stamper, table (pressed)	254
balley power	365	bitter (cardboard boxes)	559	blade steam forger	190
balley spinner	365	bitter, forepart	429	blade striker	190
balley tender (carding)	365	bitter, umbrella lock	279	blade whetstone	227
balley tender (piecing)	365	bitter-up (cardboard boxes)	389	blade hook maker	278
binder, account book	532	bitumen insulator	319	blade machine operator	414
binder, armature	303	bitumen lapper	319	blade sewer	414
binder, blanket	419	bitumen roller	319	blade sewer	414
binder (book-binding)	532	bitumen worker	149	blancher, almond	440
binder (books)	414	bit winder	367	blank cutter (spoon and fork)	209
binder (cardboard boxes)	539	blebber	338	blanket (gold rib)	298
binder, chair	504	black ash furnaceman	389	blanket tender	418
binder (cheque book)	532	black ash maker	143	blanket finisher	384
binder (cloth)	532	black ash man	143	blanket raiser	384
binder (corsets)	406	black borderer	558	blanket washer (textile print- ing)	399
binder (fashion gloves)	411	black borders, envelope	558	blanket weaver	370
binder, flush	532	black branner	278	blank maker (screws)	278
binder (hat)	419	black cold roller	178	blank engine man	950
binder, hat leather	419	black cold machine man	389	blank engineer, assistant	950
binder, hay	024	black dyer, aniline	381	blast (barryes, rock salt, etc.)	076
binder (hosiery)	419	black dyer (feathers)	632	blast, chalk	074
binder, iron	532	black dyer (foreman)	359	blast (coal mine)	047
binder, leather	532	black edge (gloves)	429	blast (metalliferous mine or working)	054
binder, letterpress	419	black enamel	241	blast, sand (fine)	254
binder, machine	419	black ensembler	429	blast, sand (foundry)	254
binder, mat	419	black (disposables)	429	blast, sand (glass)	128
binder, mount	538	black, edge	429	blast, sand (on wood)	499
binder, pad	344	black, leather	335	blast, sand (precious metals)	298
binder, paste-partout	559	black, machine	279	blast, shot	255
binder, pipe	559	black, matrix (foundry)	279	blast (slag)	072
binder, publishers'	412	black (painter)	592	blast, stone	047
binder (rubber books and shoes)	532	black (pens)	279	blast furnace (chamber)	279
binder (sacks)	417	black (stores)	241	blast furnace band (skilled)	278
binder, sofa	594	black-in, enamelled slate	592	blast furnace helper	279
binder, stationer's	532	blackening bottle	949	blast furnace keeper	171
binder (straw)	024	blackening cutter-out	949	blast furnace labourer	279
binder (tailoring)	419	blackening filler	949	blast furnaceman (cupola men)	171
binder, telephone cord	419	blackening mixer	158	blast furnace potter	279
binder (umbrella, parasol)	416	blackening mixer, barnes	158	blast furnace slagger	278
binder, vellum	532	black leader	534	blast furnace tender	279
binder (warehouse)	949	black lead fimer	099	blast furnace wheel	279
binder (wool finishing)	394	black lead grinder	099	blast helper	279
binder-off	949	black lead labourer	099	blast man, hat	279
binder's board maker	498	black lead maker	099	blast operator, sand	259
binding band soldier	499	black lead mill band	099	blast tender	180
binding board maker	499	black lead parceler	099	bleach cloth cleaner (cloth cleaning)	382
binman	099	black lead pressman	098	bleach cloth cleaner (machine cleaning)	399
binoocular adjuster	322	black lead wrapper	098	bleach engineer	519
binoocular assembler	322	black leaf	549	bleacher (bass, etc.)	638
binoocular framer	322	black maker	158	bleacher, boxwood	619
binoocular maker	322	black maker, founder's	639	bleacher, bone	619
bioscope operator	667	black maker, moulder's	639	bleacher (bone, ivory, etc.)	619
bird broom maker	498	blackman	925	bleacher (collided)	148
bird picker	498	black ornament maker	638	bleacher (explosives)	143
bird catcher	638	black ornament worker	638	bleacher, fancy hair	398
bird catcher (predatory)	624	black pickler	350	bleacher, feather	632
bird preserver	638	blackplate weigher	279	bleacher (flour mill)	448
bird scarer	624	blackplate wheel	279	bleacher, furman	380
bird staffer	989	black potter	241	bleacher, ginger	448
bird tender	624	black pudding maker	448	bleacher, hair (wig-making)	398
birdie maker	419	black saddler	190	bleacher, horse hair	816
birthday card maker	548	blacksmith	190	bleacher, ivory	816
blackut baker	433	blacksmith (on board ship)	748	bleacher (paper mill)	518
blackut baker, hand	433	blacksmith, ship	190	bleacher, piece	380
blackut boiler	449	blacksmith's buffer	238	bleacher, rag	518
blackut carrier-up	119	blacksmith's hammerman	190	bleacher, stock (brooms and brushes)	639
blackut cleaner	119	blacksmith's striker	279	bleacher (straw plait)	428
blackut covarer	449	blacksmith's stoker	190	bleacher (textile)	380
blackut creamer	449	blacksmith's stoker, ship	190	bleacher, wax	519
blackut cutter-up	109	blackstone quarrier	072	bleacher, yarn	380
blackut drawer (pottery)	109	black stover	341	bleacher's man	518
blackut emptier	119	black warehouseman (flat glass)	138	bleacher's needle maker	278
blackut emptier, china	119	black washer	380		
blackut fireman	109	black web winder	367		
blackut kilnman	109	black dresser	448		
blackut liner	109	black welder	367		
blackut machine minder	433	black welder	367		
blackut machinist	433	black welder	367		
blackut oldman	110	black welder	367		
blackut painter	108	black welder	367		
blackut paintress	108	black welder	367		
blackut paster	449	black welder	367		
blackut placer	109	black welder	367		
blackut rubber	118	black welder	367		
blackut seeder	118	black welder	367		
blackut sorter	449	black welder	367		
blackut warehouseman	118	black welder	367		
blackut maker	171	black welder	367		

	Code Number.		Code Number.		Code Number.
blacken's stamp cutter	330	block cutter (wallpaper		blockman (gas prodn or man)	953
blacken's stamp designer	330	design)...	257	blockman (salt)	988
blacken's stamp maker	498	blocker and setter, wheel		blockman (shop)	775
bleach houseman	519	(railway coach)	278	blockman (stone mine or	
bleaching powder maker	143	blocker, blind	537	quarry)	972
bleaching powder man	149	blocker, bonnet	488	block minder (road mine)	943
bleaching powder packer	149	blocker, boot front	481	block minder (glass)	139
bleaching solution mixer	519	blocker, cradles	158	block minder (wire work)	279
bleaching tank		blocker, cartridge (metal		block printer (floorcloth, etc.)	638
attendants		trucks)	279	block printer (pottery)	108
(margarine)	449	blocker, colour	537	block printer (textile print-	
bleach knocker-down	149	covered)	488	ing)	382
bleach liner	149	blocker (filter)	210	block printer (wallpaper)	535
bleachman	148	blocker, flyer tube	537	block roller	214
bleach mixer	519	blocker, seal	537	block sawyer, wood	481
bleach packer	149	blocker, fur	481	block sawyer, wood paving	481
bleach soap worker	149	blocker, glass	138	block scabbler	672
bleach stillman	149	blocker, gold	537	block scrapper	672
blende colour	171	blocker, hair	410	block scraper	672
blende cleaner	279	blocker, hand (bats)	409	block squarer	575
blende conveyor	279	blocker, hat	409	block trimmer	669
blende crusher	279	blocker, hat wire	428	block under	673
blende drier	279	blocker, heel	409	block wrapper	673
blende miner	654	blocker, hydraulic hat	409	block lace maker (hand)	377
blende	143	blocker, ink	537	block lace maker (machine)	376
blender and dresser, colour	152	blocker (job dyeing, etc.)	408	block lace minder	379
(leather cloth)		blocker (lanndry)	918	block lace worker (hand)	377
blender and dresser, colour	638	blocker (lead pencil making)	537	block lace worker (machine)	376
(moleum)		blocker, leghorn	428	block collector	159
blender and taster, wine	455	blocker, machine (bats)	428	block padding maker	448
blender, butter	448	blocker, millinery wire	138	block roller	158
blender, cellulose acetate	143	blocker, (grains)	949	block cutter	278
blender (cereal foods and		blocker, roll (tapes, etc.)	278	bloomer (iron)	278
starches)	448	blocker (saws)	278	bloomer (leather dressing)	338
blender, colour (textile)	330	blocker (silk finishing)	398	bloomer (steel rolling mill)	178
blender (sordite)	148	blocker, silver	537	bloomer heater	171
blender, egg	449	blocker, sole	414	blooming mill roller	178
blender, extract	333	blocker, spoil	488	blom lender	279
blender, flour	448	blocker (sporting cartridge	556	blom shaver (bar or sheet	
blender (guncotton)	148	cases)	414	metal)	279
blender (gunpowder)	148	blocker, stiffener	414	blom shaver (steel)	278
blender, leaf	463	blocker (stone mine or	414	blom cutter	403
blender, liquor	333	quarry)	672	blom hand	405
blender (margarine)	449	blocker, tape	949	blom machinist	419
blender (meat preserving)	449	blocker (upper closing)	414	blom maker	405
blender (mineral waters)	408	blocker, velvet	408	blom presser	428
blender, mustard	448	blocker, wheel	475-6	blow engine man	950
blender, oil (mineral oil		blocker, wire	288	blower	149
refining)	143	blocker (wood)	481	blower, ball (glass)	123
blender, oil (paints and oils)	158	blocker (wood heels)	481	blower, ball (rubber)	608
blender, rag	352	blocker of fronts	414	blower (booster converter)	170
blender, spirit	458	blocker-out	138	blower, boiler	951
blender, tea	448	blocker-out, ivory	618	blower (boils, nuis and	
blender, wine	458	block feeder (matchless)	488	rivets)	279
blender, wool (mixing)	362	block floor layer	575	blower, bottle	124
blender (wool-shade making)	398	blocking dresser	537	blower, castnut	448
blender's assistant	449	blocking feeder	537	blower, chemical	124
blende screener	279	blocking machinist	419	blower, chemical glass	124
blende worker	279	block knocker	688	blower (chemicals)	149
blending house man (gun		block lapper (felt)	139	blower, clinical thermometer	322
powder)	149	block lapper (repairer)	579	blower, colour	108
blind block	537	blocklayer (cinder tip-blast	279	blower, electric bulb	124
blind fitter	688	furnace)	579	blower, enamel	259
blind fixer	688	blocklayer (edlery)	544	blower (files)	108
blind fixer, window	688	blocklayer (platelayer)	577	blower (for hats)	428
blind line maker (house		blocklayer (wood)	579	blower (general engineering)	279
machines)	373	block maker, asphalt	699	blower (glass)	124
blind line maker (plaited)	366	block maker, brake (metal		blower, glass	108
blind maker	638	shoe)	279	blower, gut	448
blind maker (cane)	472	block maker, brake (rubber)	448	blower (gypsum or plaster)	076
blind maker, cane	472	block maker, breeze	086	blower, iron	362
blind maker, paper	556	block maker, building	086	blower (lamp)	124
blind maker, shoe	688	block maker, carbon	819	blower, lamp (electric)	124
blind maker, venetian	498	block maker, cement	098	blower, machine glass bottle	125
blind painter	594	block maker, dig	498	blower, oil	150
blind roller maker	498	block maker, concrete	098	blower (rabbit fur)	338
"B" hat labourer	448	block maker, engraver's	408	blower, road (road making)	047
bleater paste maker	448	wood)	102	blower, road (road repairing)	258
block and fall man	544	block maker (fireclay)	102	blower, sand	258
block and print cutter	257	block maker, fire (patent		blower, scientific and chemi-	
block and roller cutter	257	fuel)	699	cal glass	124
block attendant	043	block maker, fireproof	699	blower (slag and slag wool)	279
block bag maker	553	block maker, gas	486	blower, stone (colliery)	047
block boy (glass)	139	block maker, lat	486	blower (stone quarries)	950
block boy (railway)	139	block maker, lay	473	blower, sulphuric acid	149
block boy (sawing)	763	block maker, leg	498	blower, thermometer tube	334
block boy (sawing)	970	block maker, ribbon	486	blower-down	042
block calendar	608	block maker, rope	498	blower for burner (lead ex-	
block chain maker	190	traction)	508	traction)	278
block chopper	672	block maker (rubber)	508	blower house man	950
block cutter (linoleum)	257	block maker (stereotyping,		blower major	351
block cutter, parquet	401	do., blocks)	548	blower man (chemicals)	149
block cutter (rubber)	609	paper printing)	257	blower man (gas works)	950
block cutter, rubber (card		block maker (wall paper)	498	blower-off	498
clothing)	609	block maker, whitening	099	blower-off (glass)	139
block cutter, shute	486	block maker, wire	498	blower (opening)	382
block cutter (stone mine or		block maker (wood)	498	blower (textile transport)	389
quarry)	072				
block cutter (textile, etc.)	908				
block cutter (wallpaper)	485				

	Code Number.		Code Number.		Code Number.
blower-up (opening)	362	board worker	432	bobbin maker-ready	466
blower-up (textile transport)	399	boa steamer	426	bobbin mill turner	466
blow georget	047	boat and barge man	738	bobbin mill turner, wooden	466
blowing engine driver	950	boat boy, canal	738	bobbin pegger	399
blowing engine man	950	boat boy, ferry	738	bobbin picker	399
blowing engine man (cotton)	362	boat builder	402	bobbin piler	399
blowing engine tender	950	boat carpenter	474	bobbin polisher (wood)	466
blowing engine tender (cotton mill)	362	boat chandler, coal	745	bobbin presser (lace)	466
blowing foreman	351	boat chandler, oil	745	bobbin picker	406
blowing room gaffer	351	boat hand	738	bobbin puncher	279
blowing room hand	362	boat hand, fishing	060	bobbin rancer	486
blowing room operative	362	boat loader	738	bobbin reamer	486
blow lamp worker	279	boat horse rider	738	bobbin reeler	367
blow major	351	boat horse keeper	749	bobbin ring	367
blow room major	351	boat keeper	738	bobbin ringer	279
blow room operative	362	boat laborer	738	bobbin riveter	406
blow-up man	448	boat-leader	738	bobbin runner	399
blow-up man (water)	448	boat leader	743	bobbin sander	499
blow-up man's assistant	449	boat loading inspector	731	bobbin sealer	399
blubberer	338	boat man	738	bobbin setter	399
blubberman	338	boat man, canal	738	bobbin shaver	399
blue bed man	148	boat man, collier's	148	bobbin sizer	399
blue bed settler	148	boat man, contract	738	bobbin skinner	486
blue bed woman	148	boat man, Customs	738	bobbin sizer (machines)	486
blue bed worker	149	boat man, derrick	738	bobbin sizer (series)	499
blue billyer	279	boat man, joy	738	bobbin slow tester	499
blue boxer	948	boat man, pleasure	738	bobbin soaker	399
blue box hand	948	boat man (shipping service)	738	bobbin sorter	399
blue dyer	351	boat man, Trinity House	738	bobbin stopper	279
blue facing brick maker	072	boatman laborer (shipbuild- ing)	738	bobbin stripper	399
blue lead filler	148	boat car maker	498	bobbin tester	498
blue lead settler	148	boat owner	738	bobbin threader, brass	399
blue lace burner	052	boat painter, canal	745	bobbin threader (lace)	399
blue lace line burner	052	boat proprietor, ferry	738	bobbin tucker	948
blue lace line drawer	052	boatman (hostel, hos'n)	738	bobbin turner	399
blue lace line maker	052	boatman, shore	738	bobbin turner, floor	689
blue lace line miller	099	boatman's mate	738	bobbin turner	486
blue lace line picker	099	boat twister	738	bobbin turner, wooden	486
blue lace maker	092	boat woman	738	bobbin turner-out	486
blue mangle	399	boatwright	482	bobbin winder	399
blue mill foreman	151	bobber and polisher, spar	238	bobbin winder	399
blue mill laborer	151	bobber (brush manufacture)	498	bobbin winder-out	399
blue mixer and charger	158	bobber, truck	238	bobbin winder, brass	367
blue mold maker	948	bobber (shredding machine)	425	bobbin winder (electrical)	303
blue parceller	948	bobber, emery (foundry)	237	bobbin winder (metal)	279
blue presser	158	bobber, fish	745	bobbin winder (not silk)	367
blue pressman	158	bobber (fish dock)	745	bobbin winder, ring	367
blue printer	948	bobber, frame	238	bobbin winder, ring (silk)	371
blue print stockkeeper	910	bobber (metal)	238	bobbin winder (silk)	371
blue (laundry)	278	bobber, needle	425	bobbin winder (overlooker)	399
blue (metal)	278	bobber, spar	279	bobbin wiper	371
blue (small arms)	220	bobbin and carriage band	210	bobbin worker, bottle	409
blue (tempering)	380	bobbin and carriage straight- ener	210	bobbin	409
blue rock getter	072	bobbin and carriage straight- ener, lace machine	210	bobbin	409
blue stone	370	bobbin and fly frame tender	363	bobbin	409
blue stone maker	279	bobbin barreller	498	bobbin	409
blue stoker	948	bobbin board maker (metal)	204	bobbin	409
blue stripper	159	bobbin board maker (wood)	486	bobbin	409
blue trucker	335	bobbin borer	486	bobbin	409
blue vat dyer	335	bobbin borer, wooden	486	bobbin	409
blue washer	104	bobbin boy (note)	399	bobbin	409
blunger	082	bobbin boy (rope and twine)	399	bobbin	409
blunger, clay	082	bobbin carrier	399	bobbin	409
blunt worker	632	bobbin cart	486	bobbin	409
box maker (feather)	332	bobbin chucker, wood	486	bobbin	409
board carrier	970	bobbin cleaner	089	bobbin	409
board carrier, bricklayer's	588	bobbin counter	486	bobbin	409
board chopper	548	bobbin counter, wooden	486	bobbin	409
board combster	334	bobbin doffer	399	bobbin	409
boarder (feather dressing)	519	bobbin end presser	486	bobbin	409
boarder (paper making)	384	bobbin end presser, wood	486	bobbin	409
boarder, wet (holery)	149	bobbin end stamper, wood	387	bobbin	409
boarder-up (mangles)	912	bobbin filler	399	bobbin	409
boarding foreman	339	bobbin finder	399	bobbin	409
boarding house keeper	339	bobbin finisher, wooden	486	bobbin	409
boarding machine operator	339	bobbin gatherer (cotton)	399	bobbin	409
boarding officer	339	bobbin gatherer (jute)	399	bobbin	409
board liner	512	bobbin gatherer (textile mill)	399	bobbin	409
board maker	686	bobbin head presser	558	bobbin	409
board maker, bagstelle	486	bobbin hooper	279	bobbin	409
board maker, binder's	499	bobbin labeller	949	bobbin	409
board maker, binding	486	bobbin ladder	399	bobbin	409
board maker, bobbin (metal)	486	bobbin layer	399	bobbin	409
board maker, chess	486	bobbin layer-on	399	bobbin	409
board maker, cross	486	bobbin layer	399	bobbin	409
board maker, draught	486	bobbin layer	399	bobbin	409
board maker, drawing	486	bobbin layer	399	bobbin	409
board maker, top steel	264	bobbin layer	399	bobbin	409
board maker, trimming	486	bobbin layer	399	bobbin	409
boardman (bakery)	486	bobbin layer	399	bobbin	409
boardman (general labourer)	970	bobbin layer	399	bobbin	409
board man, reb.	380	bobbin layer	399	bobbin	409
board man, striking	279	bobbin layer	399	bobbin	409
board mill laborer	519	bobbin layer	399	bobbin	409
boardroom man	044	bobbin layer	399	bobbin	409

Code Number.		Code Number.		Code Number.	
body maker (shirts) ...	419	boiler, peed syrup ...	436	boiler pipe fitter ...	210
bodymaker (silk hats) ...	409	boiler, pitch ...	361	boiler pipe fitter's labourer ...	213
body maker, rocker (for sawmeters, perambulators, &c.) ...	472	boiler, printing, metal ...	351	boiler pipe ...	214
body maker, wood ...	475-6	boiler, printing, ink oil ...	518	boiler riveter ...	255
body mounter ...	475-6	boiler, printing ink varnish ...	518	boiler scaler ...	952
body moulder, conch ...	475-6	boiler, rug ...	518	boiler scraper ...	952
body notcher ...	279	boiler (ramie spinner's) ...	393	boiler scurfer ...	952
body painter, conch ...	381	boiler, ramie spinner's ...	393	boiler sealer ...	565
body painter (rolling stock) ...	583	boiler, resin ...	518	boiler setter ...	565
body cutter ...	428	boiler, saws ...	393	boiler's helper ...	223
body varnisher ...	429	boiler, screw ...	159	boiler shop common labourer ...	223
body viceman ...	279	boiler, shrimp ...	443	boiler shop labourer ...	223
body wauler ...	429	boiler (silk) ...	393	boiler shop tirester ...	223
hogey ...	279	boiler, sizes ...	443	boiler slinger ...	919
hogeyer ...	279	boiler, sizes ...	443	boiler smith ...	199
hogeyer to bank ...	279	boiler, slings ...	159	boiler smelter ...	952
hogeyer to rolls ...	279	boiler, soap ...	159	boiler stoker ...	951
hogeyer to shears ...	279	boiler, soap (wool preparing) ...	399	boiler tender ...	951
hogey lad ...	159	boiler, soft soap ...	159	boiler tester ...	278
hogey man (gas works) ...	699	boiler, spore ...	393	boiler tube and tin cleaner ...	952
hogeyman (iron or steel works) ...	279	boiler, starch ...	393	boiler tube cleaner ...	952
hogey man (rubber) ...	609	boiler, straw ...	518	boiler tube expander ...	222
hogeyman, sheets mill ...	279	boiler, sugar (drinks) ...	434	boiler tube fitter ...	222
hogey roller ...	279	boiler, sugar (sugar con- fectionery) ...	434	boiler tube fitter's labourer ...	223
hogger ...	349	boiler, sugar (sugar refining) ...	434	boiler tuber ...	749
hoggie ...	643	boiler, sweet ...	531	boiler tube sweeper, ship's ...	222
hogie boy ...	279	boiler, tank ...	393	boiler turner ...	709
hogie cleaner (metalliferous mine or working) ...	056	boiler, tallow ...	434	boiler washer-out ...	709
hogie cleaner (railway rolling stock) ...	659	boiler, tallow ...	434	boiler welder and fanger ...	191
hogie driver, electric motor ...	054	boiler, tallow ...	434	boiler yard labourer ...	279
hogie haul ...	054	boiler, tallow ...	434	boiling band, soap ...	159
hogie man (coal mine) ...	143	boiler, tallow ...	434	boiling house man ...	159
hogie man (explosive) ...	049	boiler, tallow ...	434	boiling man, tar ...	319
hogie man (metal trades) ...	279	boiler, tallow ...	434	boiler mace maker ...	419
hogie man (oil coker) ...	159	boiler, tallow ...	434	boiler mace maker (lead) ...	419
hogie man (stone mine or quarry) ...	072	boiler, tallow ...	434	boiler maker (knife) ...	191
hogie roller ...	279	boiler, tallow ...	434	boiler stamp (fish eaters) ...	286
hogie (metalliferous mine or working) ...	054	boiler, tallow ...	434	boiler stamp (knife) ...	191
hogie (other mine or quarry) ...	072	boiler, tallow ...	434	boiler and joint maker ...	324
hogie rider (colliery) ...	043	boiler, tallow ...	434	boiler boy ...	279
hogie rider (stone mine or quarry) ...	072	boiler, tallow ...	434	boiler dipper ...	279
hogie runner (metalliferous mine or working) ...	054	boiler, tallow ...	434	boiler dresser ...	191
hogie runner (nitro-glycerine) ...	149	boiler, tallow ...	434	boiler (cotton and lead) ...	223
hogie runner (other mine or quarry) ...	072	boiler, tallow ...	434	boiler (Cheshire dyeworks) ...	943
hogie runner (steel works) ...	279	boiler, tallow ...	434	boiler, wheel ...	279
hogie shaver ...	054	boiler, tallow ...	434	boiler-down ...	17
hogie trimmer ...	049	boiler, tallow ...	434	boiler-up ...	279
hogie (bleach works) ...	393	boiler, tallow ...	434	boiler fuser ...	290
boiler, bone (grease) ...	159	boiler, tallow ...	434	boiler finder ...	943
boiler, bone (manure) ...	149	boiler, tallow ...	434	boiler forger ...	191
boiler, bone (sine, sine) ...	159	boiler, tallow ...	434	boiler forger, machine ...	191
boiler, clay ...	119	boiler, tallow ...	434	boiler fuser ...	279
boiler, clay ...	119	boiler, tallow ...	434	boiler header, Horfall ...	278
boiler, clay ...	119	boiler, tallow ...	434	boiler header, Marlen ...	278
boiler, dye (textile dressing) ...	335	boiler, tallow ...	434	boiler header, slide ...	278
boiler, dye (textile) ...	335	boiler, tallow ...	434	boiler heading machine man ...	278
boiler, dyewood liquor ...	146	boiler, tallow ...	434	boiler heading machine ...	278
boiler, esparto ...	518	boiler, tallow ...	434	boiler heading machine ...	278
boiler, esparto grass ...	518	boiler, tallow ...	434	boiler heading machine ...	278
boiler, fish oil ...	153	boiler, tallow ...	434	boiler heading machine ...	278
boiler (fish yarn) ...	396	boiler, tallow ...	434	boiler heading machine ...	278
boiler, fruit ...	449	boiler, tallow ...	434	boiler heading machine ...	278
boiler, fruit (jam, &c.) ...	436	boiler, tallow ...	434	boiler heading machine ...	278
boiler, fustic ...	331				

Code Number.		Code Number.		Code Number.	
bone brush planer	618	book room porter	706	borer, rock	072
bone brush polisher	618	bookseller	770	borer, rock salt	076
bone brush profiler	618	bookseller and stationer	770	borer, scissars	200
bone brush proper	618	book sewer	549	borer, soybe	200
bone brush tub man	619	booktail boy	775	borer (shipbuilding)	231
bone sawer	406	booktail keeper	770	borer, shot (coal mine)	047
bone cleaner	159	booktail manager	770	borer, shot (metalliferous mine or working)	054
bone cleanser	159	book traveler	773	borer, stone (colliery)	072
bone cleanser (manure)	143	booster	389	borer (stone mine or quarry)	072
bone cracker	618	boom inspector (fireways)	714	borer, tong	200
bone crusher (manure)	149	boot and shoe facter	770	borer, tyre	200
bone crusher (tallow factory)	159	boots and shoe maker	412	borer, well	580
bone cutter	618	boot and shoe maker (rubber)	608	borer, wheel	200
bone degreaser	138	boot and shoe top or upper maker	414	borer, wheel hub	200
bone disc cutter	618	boot black	429	borer, wide (tobacco pipes, not clay)	688
bone disc turner	618	boot cleaner	429	borer (wind instrument, ebo-	608
bone disc grinder	149	boot front blocker	414	borer (wind instrument, ebo-	608
bone grinder	149	boot glosser	429	borer, wood	486
bone half cutter	613	boot keeper	777	borer (wood machinist)	486
bone half turner	613	boot book maker	270	borer, wooden bobbin	486
bone handle cutter	613	boot sroner	414	borer (wood wind instru-	486
bone handle fitter	618	boot lace doer	949	borer's plate filler, machinist	633
bone handle hafter	618	boot lace maker (leather)	348	borer (wood wind instru-	486
bone handle maker	618	boot lace tapper	486	borer's plate filler, machinist	633
bone jumper	618	boot last concaver	486	borer (wood wind instru-	486
bone manure man	149	boot laster	414	borer's plate filler, machinist	633
bone meal man	149	boot last maker	486	borer (wood wind instru-	486
bone picker	449	boot last plate	254	borer's plate filler, machinist	633
bone polisher	619	boot last turner	486	borer (wood wind instru-	486
bone presser	406	boot machine operator	414	borer's plate filler, machinist	633
bone (provisions)	619	boot machine fitter	210	borer's plate filler, machinist	633
bone sander	619	boot maker	414	borer's plate filler, machinist	633
bone sawyer (bone, bone, &c.)	149	boot maker, babies'	414	borer's plate filler, machinist	633
bone sawyer (manure)	618	boot maker, cloth	412	borer's plate filler, machinist	633
bone scorer	618	boot maker, fetlock	344	borer's plate filler, machinist	633
bone scraper	159	boot maker, horse	344	borer's plate filler, machinist	633
bone sorter	159	boot maker, hobnag	412	borer's plate filler, machinist	633
bone stainer	619	boot maker, surgical	412	borer's plate filler, machinist	633
bone tip cutter	613	boot needle maker	273	borer's plate filler, machinist	633
bone turner	613	boot peg maker	499	borer's plate filler, machinist	633
bone worker	618	boot plate fitter	414	borer's plate filler, machinist	633
bonna book maker	275	boot polisher	429	borer's plate filler, machinist	633
bonna book sewer	200	boot polish mixer	158	borer's plate filler, machinist	633
bonna machinist	407	boot rivet cutter	254	borer's plate filler, machinist	633
bonnet blocker	486	boot rivet maker	254	borer's plate filler, machinist	633
bonnet front maker	486	boot (deamatic)	980	borer's plate filler, machinist	633
bonnet maker (dress)	486	boots (ship)	737	borer's plate filler, machinist	633
bonnet maker (motor car)	944	boot stainer	429	borer's plate filler, machinist	633
bonnet maker, Scotch	410	boot tree maker	486	borer's plate filler, machinist	633
bonnet shape maker	486	boot trimmer	429	borer's plate filler, machinist	633
bonnet wire maker	429	boot upper trimmer	429	borer's plate filler, machinist	633
boogie man	581	borax maker	148	borer's plate filler, machinist	633
book agent	770	borax refiner	148	borer's plate filler, machinist	633
bookbinder	382	borderer	558	borer's plate filler, machinist	633
bookbinder's tool cutter	230	borderer, black	558	borer's plate filler, machinist	633
bookbinder's tool engraver	774	borderer, coal	558	borer's plate filler, machinist	633
book carver	473	borderer man	944	borer's plate filler, machinist	633
book-case maker	473	borer and cutter, cross	486	borer's plate filler, machinist	633
book clasper	530	borer, artesian	580	borer's plate filler, machinist	633
book collector	758	borer, barrel fine	200	borer's plate filler, machinist	633
book colporteur	777	borer, barrel (tubes)	200	borer's plate filler, machinist	633
book cover maker	532	borer, bobbin	486	borer's plate filler, machinist	633
book debt buyer	759	borer (bone brushes)	618	borer's plate filler, machinist	633
book deliverer	754	borer (broom, brush)	588	borer's plate filler, machinist	633
book edge glider	533	borer, brush	688	borer's plate filler, machinist	633
book edge lock maker	243	borer, button	689	borer's plate filler, machinist	633
book edge marbler	548	borer, case seat	486	borer's plate filler, machinist	633
booker, cloth	389	borer (colliery)	047	borer's plate filler, machinist	633
booker, out	399	borer, cementator	290	borer's plate filler, machinist	633
booker (glass)	942	borer, counter	290	borer's plate filler, machinist	633
booker, skip	703	borer, cylinder	399	borer's plate filler, machinist	633
booker, train	703	borer, diamond	654	borer's plate filler, machinist	633
book folder (bookbinder's)	548	borer (fancy combs and slides)	618	borer's plate filler, machinist	633
book folder (printer's)	549	borer (for shot firing)	047	borer's plate filler, machinist	633
book folder (stationer's)	559	borer, hole (colliery)	047	borer's plate filler, machinist	633
bookling clerk, chief	939	borer, hole (piano)	486	borer's plate filler, machinist	633
bookling clerk (railway)	939	borer, hole (shipbuilding)	231	borer's plate filler, machinist	633
bookling clerk (shipping ser-	939	borer, horizontal	290	borer's plate filler, machinist	633
bookling clerk (shipping ser-	939	borer, hub	290	borer's plate filler, machinist	633
bookling clerk (shipping ser-	939	borer (ingot)	279	borer's plate filler, machinist	633
bookling clerk (shipping ser-	939	borer, ingot	279	borer's plate filler, machinist	633
bookling clerk (shipping ser-	939	borer, iron	290	borer's plate filler, machinist	633
bookling clerk (shipping ser-	939	borer, machine (broom, brush)	688	borer's plate filler, machinist	633
book-keeper, assistant	939	borer, machine (stone mine or quarry)	072	borer's plate filler, machinist	633
book-keeper, chief	931	borer (metal)	290	borer's plate filler, machinist	633
book-keeper, head	931	borer (metalliferous mine or working)	654	borer's plate filler, machinist	633
book maker, fly	688	borer, mine	580	borer's plate filler, machinist	633
book maker, leather case	532	borer (mine sinking)	580	borer's plate filler, machinist	633
book maker, pattern	534	borer, minerals (metalliferous mine or working)	054	borer's plate filler, machinist	633
book maker, pocket	548	borer, mineral (mine sinking)	580	borer's plate filler, machinist	633
bookmaker (tail)	880	borer, oil well	580	borer's plate filler, machinist	633
bookmaker's clerk	890	borer, pear handle	613	borer's plate filler, machinist	633
bookmaker's runner	890	borer, plank	942	borer's plate filler, machinist	633
bookmaker's son	890	borer (pottery)	195	borer's plate filler, machinist	633
book maker, fly	688	borer, reel	406	borer's plate filler, machinist	633
book publisher's collector	942			borer's plate filler, machinist	633
book room assistant	706			borer's plate filler, machinist	633
book room attendant	706			borer's plate filler, machinist	633

	Code Number.		Code Number.		Code Number.
bottom action maker (player piano)	642	box and Derby tennis (cotton waste)	363	box maker, willow	472
bottom roller (hook, shoe)	629	box and slide	383	box maker (wood)	478
bottom cutter (beaver)	642	tendant (cardboard box making)	554	box maker (wooden fixture boxes)	588
bottom cutter (stoneman)	644	box and slide machine at-tendant (wood)	481	box-maker's cutter (sawyer)... ..	481
bottom deliver	072	box at-tendant, axle	709	box-maker's cutter (wood-working machinist)	486
bottomer, assistant	043	box at-tendant, axle	399	box making machinist	486
bottomer, button	689	box boy (carpets, &c.)	399	box maker (wooden)	498
bottomer (case)	452	box boy (flag, flag pump)	399	boxman (colliery)	499
bottomer (cardboard boxes)	578	box cleaner, axle	692	boxman (dock labourer)	745
bottomer, chair	686	box cleaner, horse	716	bushman, suit coat	049
bottomer, chair (case)	482	box cleaner (textile)	399	bushman, point	704
bottomer (chair-not case)	496	box collector	399	bushman (sugar refining)	444
bottomer (clay, marl pit)	074	box cooper	479	bushman, washing	949
bottomer (coal mine)	043	box cutter	610	box minder, can	348
bottomer (metaliferous mine or working)	054	box cutter, vice	210	box minder, cot	399
bottomer metal seamer)	342	box dresser	949	box minder, draw	363
bottomer, night	472	box emptier (card room)	399	box minder, feeding	363
bottomer, seat (case)	072	boxer, blue	949	box minder, finishing	363
bottomer (stone mine or quarry)	072	boxer, chocolate	576	box minder, finishing gill	363
bottom filler (boots)	279	boxer (enamelled slate)	363	box minder, gill	363
bottom filler (metal furnace)	429	boxer, gilt	363	box minder, preparing	363
bottom fine sponser	114	boxer, metal polish	949	box minder, punch	363
bottom getter	072	boxer (packer)	399	box minder, reducing	363
bottom knocker	113	boxer, professional	949	box minder, roving	363
bottom leveller (boots)	429	boxer, shirt	190	box minder, run-over	363
bottom leveller (log axes)	496	boxer (smith)	699	box minder, set	363
bottom man (coal mine)	043	boxer (sport)	449	box minder (silk)	399
bottom man, nickel shed	043	boxer, starch	324	box minder, spindle	363
bottom man, pit	171	boxer-in	216	box minder, spindle gill	363
bottom man (steepjack's assistant)	589	boxer-off	363	box minder, weigh	363
bottom man (vertical retort)	429	boxer-up	363	box minder (wood combing)	363
bottom paddler	429	box feeder, gill (not silk)	363	box minder, wheel	363
bottom painter	429	box feeder, gill (milk)	363	box nitcher	279
bottom polisher	429	box filler (card room)	399	box office clerk	839
bottom rammer (Bessemer steel)	278	box filler (foundry)	113	box office keeper	839
bottom roller, roller	210	box filler (machines)	279	box office manager	839
bottom scaler	429	box filler (master furnace)	949	box office telephone operator	839
bottom shooter	044	box filler (packer)	399	box pattern	183
bottom slainer (boots)	429	box filler (saddle printing)	949	box raker	183
bottom sweeper	279	box finisher (cigars)	949	box re-maker	479
baugh ledger clerk	399	box fitter (artist's colours)	949	box repairer, horse	475-6
banker	399	box fitter (iron or steel foundry)	216	box repairer (packing case)	532
banker	399	box folder (dress)	278	box repairer, pit	532
banker	399	box folder (material)	279	box sewer	949
banker	399	box former	254	box slinger	949
banker	399	box hand, blue	949	box stonemiller	949
banker	399	box hand, cardboard	554	box tenter, card	363
banker	399	box hand, fodge	522	box tenter (cotton)	363
banker	399	box hand, packer	949	box tenter, draw	363
banker	399	box hand, polish	522	box tenter, drawing	363
banker	399	box hand, printing	449	box tenter, finishing	363
banker	399	box hand (sugar refining)	342	box tenter, intermediate draw frame)	363
banker	399	boxing glove cutter	348	box tenter, intermediate (fly frame)	363
banker	399	boxing glove maker	348	box tenter (silk)	399
banker	399	boxing glove sewer	348	box tenter (wool combing)	363
banker	399	boxing glove stitcher	348	box tender (textile printer's)	363
banker	399	box inspector (electricity supply)	692	box wiper	279
banker	399	box inspector	216	box worker	279
banker	399	box iron fitter and finisher	183	boy, cabin	000
banker	399	box lifter	559	boy, fisher	000
banker	399	box liner, cigar	949	boy (fishing boat)	000
banker	399	box liner (marzipan)	370	boy (glass tube drawing)	139
banker	399	box loom weaver	410	boy (ship)	725
banker	399	box machinist, axle	200	boy, surgery	929
banker	399	box machinist, outside	499	boy, trolley	723
banker	399	box maker, butter	554	boy, caulker	723
banker	399	box maker (cardboard)	554	boy, labourer	723
banker	399	box maker, cardboard	554	boy messenger	723
banker	399	box maker (cardboard fixture boxes)	554	boy messenger (Post Office)	758
banker	399	box maker, chronometer	473	brace bit maker	190
banker	399	box maker, oiler	498	brace clicker	342
banker	399	box maker, coal	473	brace cutter	342
banker	399	box maker, core	480	bracket maker, band	284
banker	399	box maker, furniture (hardware)	114	bracket maker, chain	284
banker	399	box maker, egg	474	bracket maker, curb	284
banker	399	box maker, fancy	486	bracket maker, expanding	284
banker	399	box maker (fireclay)	118	bracket maker, flexible	284
banker	399	box maker, flange	554	bracket maker, spring	284
banker	399	box maker, horse	475-6	bracket maker, stiff	284
banker	399	box maker, mabob	499	bracket maker, tube	284
banker	399	box maker (match factory)	499	bracket spinner	284
banker	399	box maker, mineral water	474	bracket maker, elastic	284
banker	399	box maker, oilment	618	bracket maker, leather	284
banker	399	box maker, pearl	474	bracket	415
banker	399	box maker, scale	498	Bradford dresser (wool)	380
banker	399	box maker, scaleboard	498	Bradley hammer smith	190
banker	399	box maker, strawboard	554	brad maker	254
banker	399	box maker, swell	473	brad head comb	254
banker	399	box maker, tin	264	brad maker	254
banker	399	box maker, travelling (Deshler)	345	brad maker	254
banker	399	box maker, travelling (wood)	345	brad maker	254

Code Number.		Code Number.		Code Number.	
braider (cables) ...	319	branchman, horse ...	049	brass wire finisher ...	224
braider (carriages, etc.) ...	564	branchman (shunter) ...	764	brass wire maker ...	224
braider (dross) ...	419	branch manager ...	791	brass wire drawer ...	268
braider (fishing nets) ...	336	branch passenger guard ...	702	brass worker ...	276
braider (flexible tubing) ...	658	branch cutter ...	236	brass worker, camera ...	770
braider, hand machine ...	398	brancher (barrel) ...	435	brass worker, church ...	221
braider, hand net ...	391	brancher, cargo ...	748	brass wire cloth maker ...	410
braider, net ...	395	brancher, case ...	949	brass wire man ...	047
braider, power machine ...	393	brancher (case making) ...	949	bratticer ...	047
braider, reed ...	472	brancher, cork ...	639	brawl maker ...	448
braider (rubber hose) ...	609	brancher (galvanised sheet) ...	279	brayle maker ...	373
braider, rush ...	472	brancher (rubber goods) ...	609	brayer ...	262
braider, sedge ...	472	brancher (sacks, bags, etc.) ...	429	brayer, barrel ...	262
braider, semi-power machine ...	336	brancher (sewing machine) ...	279	brayer, chain frame ...	262
braider, twine ...	395	brancher, sole ...	429	brayer, copper ...	262
braider, whip ...	686	brancher (tinplate) ...	279	brayer, cycle ...	262
brad filler ...	371	branner ...	279	brayer, frame ...	262
brad gimper ...	370	branner, black ...	279	brayer, frame (cycles) ...	262
braiding machine minder ...	398	branner, white ...	279	brayer, frame ...	262
braiding machine tenter ...	319	brass topser ...	942	brayer, iron ...	262
braiding net hand ...	396	brass bearings fitter ...	210	brayer, tube ...	262
braiding net maker ...	398	brass bit forger ...	190	brayer, wire ...	262
brad jobber ...	396	brass bobbin threader ...	389	brayer (metal trades) ...	262
brad measurer ...	395	brass bobbin winder ...	367	braxier (precious metals) ...	267
brad speeder ...	370	brass buffer ...	236	bread maker ...	433
brad tenter (silk) ...	398	brass buttoning machinist ...	236	bread plaiter maker ...	406
brad weaver ...	370	brass capstan hand ...	224	breaker, bale ...	362
Braille writer ...	554	brass case tube maker ...	266	breaker, bear ...	279
brake assembler ...	279	brass case lock maker ...	243	breaker, blast furnace ...	279
brake assembler, cycle ...	279	brass caster (foundry furnace) ...	184	breaker, boiler ...	279
brake attendant (tramway) ...	714	brass caster (moulder) ...	180	breaker, coke (cocon) ...	449
brake block maker (metal shoe) ...	279	brass chain maker ...	278	breaker, cord ...	363
brake block maker (rubber) ...	698	brass cleaner (metal trades) ...	279	breaker (oardboard boxes) ...	559
brake examiner (railway) ...	709	brass cleaner (office) ...	922	breaker, chip ...	499
brake examiner (tramways) ...	714	brass cleaner (vehicle) ...	790	breaker, cinder ...	099
brake fitter (cycle) ...	229	brass dipper ...	250	breaker, cinder (blast furnace) ...	279
brake fitter (railway coach, wagon, tramcar) ...	210	brass driver ...	254	breaker (coal mine) ...	042
brake fitter, vacuum ...	210	brass engraver ...	278	breaker, coal (gas works) ...	699
brake fitter, Westinghouse ...	210	brasser ...	799	breaker, coal (power) ...	042
brake hand ...	530	brass fettle ...	185	breaker, cocoa bean ...	449
brake inspector (railway) ...	700	brass fettle, axle ...	185	breaker, colour stone ...	118
brake inspector (tramway) ...	714	brass filer ...	233	breaker, coil ...	725
brake lad ...	076	brass finisher ...	224	breaker, cork ...	639
brake lampman ...	706	brass finisher (bobbins) ...	224	breaker, dog ...	398
brake man ...	076	brass finisher's labourer ...	278	breaker, dog ...	433
brake minder ...	638	brass fitter ...	224	breaker, dross ...	279
brake operator ...	433	brass fitter, angle ...	224	breaker, egg ...	449
brake propeller ...	711	brass fitter, axle ...	210	breaker, engine ...	279
brake (china clay) ...	074	brass fitter, wagon ...	224	breaker, furnace ...	384
brake (clay, marl, etc.) ...	074	brass fitter's labourer ...	278	breaker, ganister ...	099
brake (colliery) ...	043	brass former (press band) ...	254	breaker, gypsum ...	699
brake, incline ...	043	brass former (spinning) ...	247	breaker, hair ...	362
brake, loomage machine ...	433	brass founder ...	180	breaker, hand bump ...	362
brake, staple ...	043	brass founder's labourer ...	185	breaker, hard waste ...	362
brake, wagon ...	072	brass foundry farmaceutan ...	184	breaker, hemp ...	362
brake repairer ...	244	brass instrument maker ...	646	breaker, horse ...	725
brake repairer, vacuum ...	244	brass lathe hand ...	224	breaker, horse (colliery) ...	047
brake repairer, Westinghouse ...	244	brass lathe man ...	224	breaker, house ...	568
brake man (baker) ...	702	brass letter carrier ...	224	breaker, ice ...	169
brake man, ballast ...	702	brass letter carrier ...	184	breaker, iron ...	183
brake man, bank ...	704	brass letter caster (moulder) ...	224	breaker (iron and steel rolling) ...	178
brake man (blast furnace) ...	279	brass letter cutter ...	588	breaker, iron ore ...	279
brake man (coal drops) ...	744	brass letter flier ...	184	breaker, ironstone ...	279
brake man (colliery) ...	043	brass lock caster ...	180	breaker, limestone ...	279
brake man, drum ...	054	brass lock caster (moulder) ...	224	breaker, manganese ...	279
brake man, electric car ...	722	brass machinist ...	224	breaker, marl ...	074
brake man, engine ...	959	brass medieval furnitures ...	221	breaker, metal (blast furnace) ...	279
brake man, goods ...	102	brake moulder ...	278	breaker, metal (poddling) ...	279
brake man, hoist ...	959	brake mould maker ...	278	breaker, metal (scrap metal) ...	279
brake man, incline (colliery) ...	043	brake monical instrument maker ...	646	breaker (metalliferous mine or working) ...	056
brake man, incline (railway) ...	704	brake picker ...	049	breaker, mill ...	072
brake man, incline (slate mine or quarry) ...	073	brake piercer ...	254	breaker, mine ...	279
brake man, incline (slate mine or quarry) ...	073	brake planer ...	278	breaker, ore ...	279
brake man, incline (slate mine or quarry) ...	073	brake polisher (foundry) ...	738	breaker (paper making) ...	518
brake man, incline (slate mine or quarry) ...	073	brake roller ...	279	breaker, pig (blast furnace) ...	279
brake man, incline (slate mine or quarry) ...	073	brake rule cutter ...	279	breaker, pig (iron or steel foundry) ...	183
brake man, incline (slate mine or quarry) ...	073	brake rule sawyer ...	279	breaker, pig (poddling) ...	279
brake man, incline (slate mine or quarry) ...	073	brake sheet roller ...	264	breaker, pig iron (blast furnace) ...	279
brake man, incline (slate mine or quarry) ...	073	brake shell maker ...	262	breaker, pig iron (poddling) ...	279
brake man, incline (slate mine or quarry) ...	073	brake solderer ...	247	breaker, pig iron (poddling) ...	279
brake man, incline (slate mine or quarry) ...	073	brake spinner ...	254	breaker, pyrites ...	146
brake man, incline (slate mine or quarry) ...	073	brake stamper ...	279	breaker, rail ...	279
brake man, incline (slate mine or quarry) ...	073	brake strip cutter ...	264	breaker (railway) ...	704
brake man, incline (slate mine or quarry) ...	073	brake threader ...	279	breaker (road metal) ...	099
brake man, incline (slate mine or quarry) ...	073	brake tinker ...	266	breaker, rock (contractor's) ...	581
brake man, incline (slate mine or quarry) ...	073	brake tube charger ...	279	breaker, rock (metal mine) ...	456
brake man, incline (slate mine or quarry) ...	073	brake tube drawer ...	266	breaker, rough stone ...	576
brake man, incline (slate mine or quarry) ...	073	brake tube dresser ...	266	breaker, scrap metal ...	279
brake man, incline (slate mine or quarry) ...	073	brake tube former ...	224	breaker, scrap (scrap metal) ...	279
brake man, incline (slate mine or quarry) ...	073	brake tube solderer ...	224	breaker, scrap (steel man) ...	279
brake man, incline (slate mine or quarry) ...	073	brake turner ...	224	breaker, scrap (steel man) ...	279
brake man, incline (slate mine or quarry) ...	073	brake turner, axle bush ...	224	breaker, scrap (steel man) ...	279
brake man, incline (slate mine or quarry) ...	073	brake turner, axle cap ...	224	breaker, scrap (steel man) ...	279
brake man, incline (slate mine or quarry) ...	073	brake washer ...	279	breaker, scrap (steel man) ...	279
brake man, incline (slate mine or quarry) ...	073	brake weight caster ...	180	breaker, scrap (steel man) ...	279

	Code Number		Code Number		Code Number
breaker, silica	099	brease washer (coke works)	689	bridge inspector	700
breaker, skull	273	brease washer (gas works)	690	bridge loader	279
breaker, slag (slag dump)	099	brease wheeler	970	bridge maker	324
breaker, slag (steel manufacture)	279	brease wheeler (gas works)	699	bridge man	741
breaker, silver	363	brewer	453	bridge man, hydraulic	703
breaker, spiegel	279	brewer, assistant	453	bridgeman (railway)	741
breaker, starch	449	brewer (cedar tavern)	929	bridge man, sluice	741
breaker (steel manufacture)	279	blower (distillery)	458	bridge man, swing	709
breaker (stone)	572	brewer, ginger beer	458	bridge master (dock)	741
breaker, stone (alkali)	149	brewer, trip ale	458	bridge master (railway)	703
breaker, stone (building)	581	brewer, non-alcoholic	458	bridge master, sluice	741
breaker, stone (cement, etc.)	089	brewer, vinegar	448	bridge painter	592
breaker, stone (stone mine or quarry)	072	brewer's agent	796	bridge plate	255
breaker (textile)	584	brewer's assistant (non-alcoholic)	450	bridge riveter	276
breaker (type foundry)	279	bolic	450	bridge stocker	561
breaker, waste	362	brewer's colouring maker	143	bridge tarring ganger	577
breaker, wood pulp	318	brewer's cooper smith	227	bridge toll collector	709
breaker, wool	362	brewer's labourer	459	bridge toll collector (railway)	705
breaker and filler	072	brewer's sasharine maker	796	bride outfit	344
breaker-down (brewery)	459	brewery agent	796	bride front maker	344
breaker-down (plate mill)	178	brewery value	796	bride machine	344
breaker-down (wire works)	268	brewing victualler	914	bride make	344
breaker-fader, bale	362	beair bowl turner	486	bride stitcher	344
breaker feeder (cotton blowing room)	362	beair filler	486	brigade boy	929
breaker feeder (cotton)	362	brair fitter	680	brightener (best and shoe plates)	279
breaker feeder (rag stock making)	509	brair fraser	458	brightener (fish hooks)	179
breaker man (gas works)	089	brair moulder	268	brightener, oil	143
breaker man (iron or steel foundry)	518	brair mouthpiece cutter	608	brightener (oil refining)	159
breakerman (paper making)	183	brair mouthpiece turner	598	bright finisher	470
breakerman, rag	348	beair pipe stainer	459	bright smith	947
breakerman (bale)	149	brair puncher	565	bright worker (fish hooks)	273
breaker-off (brass foundry)	279	brair arch builder	565	bright worker (needles)	638
breaker-off (cotton)	363	brick archer	565	brilliant cutter	126
breaker-off (iron or steel foundry)	183	brick arch man	565	brilliant cutter, glass	126
breaker-off, lap	363	brick carrier	119	brim cutter	409
breaker-off (type foundry)	279	brick clipper	564	brim paper	409
breaker-off (wool combing)	363	brick cleaner	564	brim presser	409
breaker's feeder	149	brick cleaner	564	brim rounder	409
breaker tender	362	brickcroft labourer	565	brim running machinet	409
breaker-up (bale opening)	279	brick cutter	119	brim shaper	409
breaker-up, coranzel	399	brick lad	119	brimstone grinder	149
breaker-up (iron or steel foundry)	143	brick factory girl	119	brimstone refinery man	338
breaker-up, coranzel	399	brick kiln builder	565	brimstone stove man	338
breaker-up, iron or steel foundry	143	brick kiln labourer	119	brimstone man	079
breaker-up (railway wagons)	659	brick kiln lad	119	brim pipe man	079
breaker-up (wool)	362	brick kiln repairer	565	brim paper	437
breaker-up (wool-combing)	363	bricklayer (charge hand)	561	brim, fish	449
breakfast cook	900	bricklayer, firework	565	brim, peel	449
breaking-off boy	279	bricklayer, foreman	561	brim, vegetable	449
break-off fitter	238	bricklayer, furnace	565	brim shafman	079
breakman (blast stamping)	433	bricklayer, muffle	565	brimstone burner	149
breakman (stone mine or quarry)	072	bricklayer (pottery)	565	brimstone maker (iron-ore scale)	149
breaker (drem)	419	bricklayer, sanitary	565	brimstone maker (patent fuel)	099
breaker, heel (boots)	414	bricklayer's assistant	566	brimble cleaner	639
breaker, heel (wooden heels)	406	bricklayer's board carrier	566	brimble cleaner	639
breaker (wool)	406	bricklayer's hod carrier	566	brimble comb	638
breaker, wood heel	436	bricklayer's hodman	566	brimble drawing band	633
brass maker	404	bricklayer's labourer	566	brimble dresser	638
breastee maker	414	bricklayer's tender	566	brimble dressing machine band	638
breast maker (forged)	190	bricklayer's tool	102	brimble engine carb band	638
breast maker (gunsmith)	239	brick maker, bath	102	brimble mixer	639
breast-pin maker	279	brick maker, blue facing	102	brimble mixing machine operator	639
breeder, dog	989	brick maker, chamotte	102	brimble picker	639
breeder, duck	011	brick maker, facing	102	brimble sifter	639
breeder, fish	989	brick maker (fire, gambier, silica, steam)	102	brimble sorter	639
breeder, horse	011	brick maker, glazed	102	brimble trimmer	639
breeder, pheasant	011	brick maker (hand)	102	brimble worker	639
breeder, pig	011	brick maker (machine)	102	Britannia metal article maker	287
breeder, poultry	011	brick maker, magnesite	102	Britannia metal canter	287
breeder, rabbit	910	brick maker, milled	102	Britannia metal snail	287
breeder, stock	011	brick maker, mixed	102	Britannia plate worker	200
breeder (textile)	398	brick maker, paving	102	broocher	200
breeder, turkey	011	brick maker, pressed	102	brooching machinet	200
breeder knitter	398	brick maker, red facing	102	brooch maker, textile	496
breeder weaver	398	brick maker, rubbing	102	brooch river	449
breese black maker	088	brick maker, sand faced	102	brooder, rug	396
breese burner	088	brick maker, set	102	brooder	262
breese carrier	279	brick maker, slop	102	brooder, arbitrage	796
breese concrete partition maker	098	brick maker, special	102	brooder, bill	771
breese elevator man	098	brick maker, stable	102	brooder (cannetere)	771
breese fitter	098	brick maker's assistant	119	brooder, cotton	771
breese forker	098	brick mill boy	565	brooder, discom	799
breese loader	098	brick pointer	102	brooder, distorting	989
breese man	098	brick repressor	565	brooder, exchange	799
breese oven labourer	089	brick setter (bricklaying)	109	brooder, financial	757
breese picker	098	brick setter (brick making)	109	brooder, hotel	757
breese plant attendant	098	brick sorter	565	brooder, insurance	792
breese riddler	273	brickyard boy	119	brooder, investment	770
breese screen man	089	brickyard labourer	119	brooder, licensed	770
breese tallyman	098	bridge carpenter	729	brooder, money	797
breese washer (blast furnace)	279	bridge company's officer	729	brooder, mortgage	799
		bridge foreman	561	brooder, outside stock	792
		bridge horse keeper	741	brooder, patent	771
				brooder, publican's	799
				brooder, scrap	770

	Code Number.		Code Number.		Code Number.
broker, share	792	brusher, biddle	399	bucket maker (wood) ...	477
broker, ship	730	brusher (hoosey)	399	bucket man	499
broker, stock	792	brusher (iron and steel roll- ing)	279	bucket man, pitch	499
broker, stock and share	792	brusher, ing (accumulators)	319	bucket shop keeper	792
broker, sworn (insurance)	796	brusher (metalliferous mine or working)	654	back born cutter	614
broker, sworn (stock)	792	brusher (seeded)	238	back born turner	612
broker's bailiff	989	brusher, paint	248	bucket bobber	238
broker's man	923	brusher (paper making)	519	bucket burner	279
bromide printer	527	brusher (paper staining)	548	bucket coverer	344
bronze article caster	180	brusher, piece	394	bucket finisher	279
bronze caster (moulder)	180	brusher (pottery)	118	bucket forger	190
bronze caster (not moulder)	164	brusher, roller	399	bucket presser	234
bronze coil distributor	729	brusher (scissors)	238	bucket roller	279
bronze crucible man	171	brusher, scratch (in a l trade)	238	bucket, spring	279
bronze founder	180	brusher, scratch (precious metals)	285	bucket stamper	254
bronze furnaceman	171	brusher (straw hats)	429	bucket tongue fitter and roller	274
bronze ingot caster	184	brusher, straw plait (straw hats)	429	bucket tongue	274
bronze ingotman	184	brusher (tailoring)	429	budder (cornet)	467
bronze labourer	279	brusher (tanning, &c.)	335	buddle attendant	556
bronze letter printer	538	brusher (textile)	709	buddle man (chemicals)	149
bronze moulder	180	brusher, tube	410	buddismen (metalliferous mine or working)	656
bronze powder maker	538	brusher (velour hats)	410	buddler	656
bronzer, card	538	brusher, ware	118	buddle washer	149
bronzer, lithographer	538	brusher, wire	285	buddle wheeler	656
bronzer, metal	241	brusher (woolen spinning)	395	buffalo horn cutter	615
bronzer (metal)	241	brusher's, scratch	265	buffalo horn handle cutter	615
bronzer, painter's	538	brusher-out (enamelling)	241	buffalo horn worker	618
bronzer (printing)	538	brusher-off (hollow-ware)	275	buffalo picker maker	343
brunse smelter	171	brusher-off (tailoring)	429	buff and glasser maker	665
brunse statue maker	184	brusher-out (barrel, cask)	459	buff coverer	383
brunse wire drawer	258	brusher-out, cask	459	buffer, band	609
bronzing machine feeder	538	brusher-out, oak	459	buffer (basket)	499
bronzing machine minder	538	brusher-up (boots)	429	buffer, blacksmith's	238
brooch maker	284	brusher-up (glass works)	139	buffer, black	238
brooch maker (not gold or silver)	293	brush fashioner, bone	618	buffer (boot, shoe)	429
brooch tangler	284	brush fashioner (sideloid)	618	buffer, bottom (boot, shoe)	429
broom dealer (buck broom)	499	brush fashioner, xyleneid	618	buffer, bowl	238
broom dealer (broom, brush)	639	brush fibre comb	363	buffer, brass	238
broomer	499	brush fibre backer	363	buffer (celluloid collars)	619
broom bandia maker	496	brush fibre tier	396	buffer, comb (horn, ivory, tortoise-shell)	619
broom maker, base	633	brush filler	633	buffer, comb (metal)	238
broom maker, brush	633	brush hand (general painting)	592	buffer, cutlery	238
broom maker, carpet	633	brush hand (painter's labourer)	592	buffer, emery wheel	338
broom maker, fibre	633	brush hand (vehicle painting)	592	buffer (fax)	362
broom maker, hair	633	brush handle maker	633	buffer, hollow-ware	285
broom maker, head	499	brush band, machine	633	buffer (leather dressing)	338
broom stick maker	496	brush hand, paint	633	buffer, line	238
brow band	449	brushing machine man	519	buffer (metal trades)	238
brow major	441	brushing machine minder	364	buffer, pearl	619
browman (coal mine)	449	brush machine finisher	496	buffer (precious metals)	285
browman (metalliferous mine or working)	654	brush machine operator	429	buffer, and	238
brown cloth (linen) finisher	384	brush maker, artist's	633	buffer, spoon and fork	285
brower	278	brush maker, bone	633	buffer, willow	499
browner, barrel	278	brush maker, bottle	633	buffer maker, leather	348
browner, bayonet	278	brush maker, camel hair	633	buffer maker's assistant	499
brown grinder	379	brush maker, carbon	633	buffer maker	473
brown room baker	385	brush maker, carbon dynamo	633	buffer manager	911
brown room worker	385	brush maker, carpet	633	buffer manageress	911
brown sandler	344	brush maker, cycle	633	buffer manageress, temper- ance	911
brown stoneware maker	195	brush maker, dynamo	633	buffer manager, temperance	911
brown warehousman	940	brush maker, fine	633	buffer machine worker	238
brush (leather dressing, &c.)	334	brush maker, glue and paste	633	building machinist, brass	238
brusher (metal goods)	279	brush maker, grainer's	633	building machinist (metal trades)	238
brusher, sample	399	brush maker, ivory	633	bulger	737
brush assembler	688	brush maker, machine scale	633	bulb cutter	473
brush borer	688	brush maker, mill machine	633	buld worker	473
brush boring hand	688	brush maker, mosaic	633	bulder, aeroplane	658
brush boring machinist	688	brush maker, paint	633	bulder, ambulance	475-6
brush case coverer	688	brush maker, painting	633	bulder, armature	318
brush case fitter	688	brush maker, scale	633	bulder, barge	482
brush case liner	688	brush maker, scratch	633	bulder, barrel	475-6
brush case maker (leather)	345	brush maker, shaving	633	bulder, base	602
brush case maker (wood)	473	brush maker, stonell	633	bulder, beat	482
brush drill	688	brush maker, stitching	618	bulder, body (not cane or wicker)	475-6
brush drill, bone	618	brush maker, tube	633	bulder, brick arch	545
brush drilling hand	688	brush maker, varnish	633	bulder, brick kiln	585
brush drilling machinist	688	brush maker, wire	633	bulder, car	475-6
brusher, back	644	brush painter	639	bulder, carriage	475-6
brusher (boots)	429	brush polisher, bone	619	bulder, cart	475-6
brusher, comb	399	brush polisher (leather dress- ing)	335	bulder, cathode	639
brusher (comb, comb, gear, havel, biddle, head)	399	brush sawyer	406	bulder, chassis frame	210
brusher, comb	399	brush stick maker	406	bulder, chimney	565
brusher, cloth	384	brush stock maker	406	bulder, chimney shaft	568
brusher (coal mine)	644	brush turner	406	bulder, coach (private car- riage, motor cars, etc.)	475-6
brusher, earthenware biscuit	245	brush varnisher	639	bulder, coach (trams)	475-6
brusher (enamelling)	245	brush washer	399	bulder, compressor	318
brusher (felt hats)	418	brush wood finisher	406	bulder, condenser	318
brusher (flax)	279	brush wood turner	406	bulder, core	318
brusher (foundry worker)	183	bucket	556	bulder, cupola	565
brusher, fur	428	bucket maker, leather	340	bulder, cycle	229
brusher (fur dressing)	335	bucket maker (metal)	240		
brusher (fur skins)	338				
brusher, glow	399				
brusher, glow	399				
brusher, havel	399				
brusher, head	399				

Bu

	Code Number.
builder, cycle fork	229
builder, cycle frame	229
builder, cycle wheel	278
builder, drum (sables)	474
builder, elastic loam	210
builder, float	475-6
builder, flue	365
builder, fork	229
builder, frame	229
builder, frame and fork	229
builder, furnace	545
builder, grave	545
builder, handle bar	229
builder, harness	399
builder, heel	414
builder, hinge	279
builder, horse box	475-6
builder, Jacquard harness	399
builder, loom machine	210
builder, loom	210
builder, mosaicite	304
builder, mosaicite plate	090
builder, milk cart	475-6
builder, milk fork	475-6
builder, millstone	575
builder, motor	545
builder, muffle	565
builder, organ	545
builder, ornamental rock	013
builder, oven	565
builder, packwall	044
builder, plate	090
builder, pole	498
builder, power loom harness	399
builder, press	210
builder (printing works)	524
builder, railway wagon	636
builder, range	565
builder, retort	565
builder, ribcoat	399
builder, rockwork	565
builder, roller	475-6
builder, scaffold	636
builder, seaplane float	636
builder, sewer	565
builder, side car	475-6
builder, staircase	474
builder, stand	210
builder, stopping	045
builder, store	565
builder, swift	210
builder, table	210
builder, timber carriage	475-6
builder, timber wagon	475-6
builder, tradesmen's float	475-6
builder, transformer	518
builder, track	475-6
builder, tyre base	592
builder, van	475-6
builder, vat	477
builder, wagon	475-6
builder, wagon (railway)	658
builder, wheel (cycle, etc.)	278
builder, wheel (perambulators)	278
builder, wheel (wood)	475-8
builder, wheelbarrow	474
builder, mason	572
builder's fitter	578
builder's foreman	561
builder's handyman	563
builder's labourer	564
builder's labourer, coach (rail- ing stock)	489
builder's machinist	486
builder's mechanic	586
builder's merchant	770
building block maker	988
building inspector	781
building steam cleaner	898
bulb farmer	613
bulb farm labourer	625
bulb grower	613
bulb maker, flash light	318
bulb maker (glass)	124
bulb wacker	319
bulb wacker (electric lamps)	319
bulb worker (glass)	194
bulger	278
bulker	469
bulldoz operator	290
bulldoz burner	278
bull dogger	173
bull dog man	278
bull dog smith	190
bullet examiner	278
bullet examiner	278
bullet gauger	278
bullet machinist	278
bullet maker	278

	Code Number.
bullet pitcher	119
bullet trimmer	119
bullet trimming operator	278
bulley, keel	380
bulb groom	622
bulb hickler	362
bullock arbitrage	799
bullock maker	298
bullock moulder	298
bullock refuse	298
bullock smelter	298
bullockman (ship)	737
bumper	041
bumble worker	362
bumboat man	777
bumboat woman	777
bumper (hats)	043
bumper (hats)	409
bumper (pottery)	409
bumper (riveter's labourer)	256
bumper (tin boxes etc.)	279
bumper-up	256
bump mill spinner	365
buncher (bar drawing)	365
buncher, bank	943
buncher, bank (not wood ware- house)	367
buncher (in warehouse)	943
buncher (straw plait)	429
buncher, straw plait	429
buncher (yarn)	399
buncher, yarn (textile mill)	399
buncher, yarn (wool ware- house)	943
bunch maker, cheroot	468
bunch maker (cigar)	468
bunch maker-up (cloth)	943
bunch maker-up (yarn)	943
bunch presser	429
bundler, bag	399
bundler (cigar)	468
bundler, delivery room press	943
bundler, fibplate	278
bundler, fax	399
bundler (fax and bump)	943
bundler, hoop	943
bundler, piece	943
bundler, press	943
bundler (rolling mill)	278
bundler, scrap	278
bundler, sheet	278
bundler, tube	278
bundler, underhand	278
bundler (warehouse)	943
bundler, waste	399
bundler (wire work)	278
bundler (wool warehouse)	943
bundler (yarn)	943
bundler, yarn	943
bundler's assistant	278
bundler's second-hand	943
burgoyne lad	758
burgoyne man	758
burg maker	499
bunker (boots)	414
bunker (ship's coal)	744
bunkerman (blast furnace)	278
bunkerman (coke ovens)	669
bunkerman (patent fuel)	669
bunt picker	561
buoy agent	731
buoy maker, canvas	418
buoy maker, life (oak)	638
buoy maker	731
buoy yard foreman	731
burden man (china clay)	074
burden man (stone mine or quarry)	072
bur examiner	278
burd dyer	381
burier	579
burier, dressed cloth	378
burier, piece	378
burier-and-mender	378
burner, acetylene	249
burner, acid	143
burner, animal charcoal	143
burner, arsenic	171
burner, ballast	970
burner, blue lime	962
burner, blue lime lime	962
burner (bone, etc.)	143
burner, breeze	081
burner (brick kiln)	104
burner, brickette	149
burner, bulbous	278
burner (cement)	092
burner, chalk	092
burner, charcoal	638
burner, chert	029

	Code Number.
burner, cinder (blast furnace)	278
burner, cinder (coke oven)	083
burner, clay (building)	561
burner, clay (railway)	577
burner, coke	088
burner (coke oven)	088
burner, copper stone	143
burner, cork	638
burner, drop (blast furnace)	278
burner (furnaceman)	171
burner (glass)	138
burner, glass	238
burner, glass	088
burner, lead	092
burner, lime	092
burner, lime (cement)	092
burner, lime (material)	092
burner, lime	242
burner, lime	092
burner, lime	399
burner, lime (iron)	171
burner (muffle furnace)	241
burner, mudie	143
burner, oxide	143
burner, oxy-acetylene	249
burner, oxy-acetylene	249
burner (pig iron)	278
burner, plaster	092
burner, pyrites	143
burner, rotary	092
burner, rotary kiln	092
burner, sand	139
burner, sand	092
burner, Schneider kiln	092
burner, shale	142
burner, slag	278
burner, stone	171
burner, sulphur	143
burner (tin mine)	258
burner (tinplate)	171
burner, vitriol	143
burner and welder, acetylene	249
burner filter	698
burner-in	318
burner man, acid	143
burner man (acid)	143
burner man (copper)	278
burner man, sulphuric acid	143
burner - off, incandescent	658
burner-off	658
burner-off (mantle)	658
burner-off girl, mantle (gas)	658
burnisher, barrel	429
burnisher (boots)	429
burnisher, buckle	278
burnisher, button	619
burnisher, gold and silver	285
burnisher, hand	238
burnisher, heel	429
burnisher, iron	238
burnisher (needles)	238
burnisher (pottery)	108
burnisher (precious metals)	285
burnisher, strip	429
burnishing stone cutter	575
burnishing stone maker	575
burnisher	338
burnisher (celluloid)	619
burnisher (machine)	619
burnisher grinder	237
burn man	364
Burgoyne operator	939
burst take-out	364
burner, rubble	072
burst picker	378
burth man	378
bus conductor	724
bus driver	719
busbeller (docks)	745
busbeller, grain	745
busbeller (padding)	172
busbeller, underhand	172
busbeller	649
busbeller, section	649
busbeller	649
busbeller	172
busbeller	224
business agent	796
business manager	880
business transfer agent	796
buster (covert)	406
buster (gas works)	699
buster (riveter) (covert)	278
buster-in (gas works)	699
bust coverer	668
bust fitter	669

	Code Number.		Code Number.		Code Number.
butler	471	button shanker	689	cable maker	190
but maker, coat	558	button sorter	689	cable maker, chain	190
but maker, dressmaker's	558	button stamper	689	cable maker, rope	373
but maker (statuette)	105	button tapper	200	cable maker, stud	190
but maker, tailor's	558	button turner	612	cable maker, wire	269
but maker (tailor's, &c.)	558	button worker	618	cable mast	319
butcher, assistant (ship)	737	butti packer	949	cable measurer	319
butcher, sausage	737	butti roller	338	cable operator	755
butcher, chicken	737	butt striker	338	cable packer	609
butcher, chief (ship)	737	butty (colliery—hewer)	642	cable	366
butcher, pig	448	butty (colliery—not a hewer)	641	cable sheather (lead)	316
butcher, pork	770	butty (stone mine or quarry)	072	cable sheather (tape, etc.)	319
butcher (preserved meat and bacon factory)	448	butty collier	042	cable shaver (electrical)	269
butcher, retail	770	buttyer	042	cable splicer (wire rope)	319
butcher, second (ship)	737	buttyman (hewer)	641	cable tank attendant	319
butcher (ship)	737	buttyman (not a hewer)	641	cable tester, submarine	306
butcher, shipping	770	buyer, book debt	799	cable tester, subterranean	306
butcher (slaughterman)	448	buyer (dealing)	772	cable tester's assistant	319
butcher, third (ship)	737	buyer, job	770	cable transfer driver	722
butcher, wholesale	770	buizer (skin yard)	338	cable welder	311
butcher blade forger	190	byeman	396	cable whapper	311
butcher's engine	244	bye-turn gas man	953	calman (horse)	718
butcher's machine man	448	bye turn man	279	calman's shelter inspector	929
butler	950	byeworker	044	cab proprietor (horse)	711
butler, jobbing	929	byeworkman	044	cab proprietor, motor	712
butler, wine	950	by-product labourer	086	cab washer	729
but cap maker	254	by-product worker	148	cadillac, golf	190
butte blender	448	byrman	922	cadre master	899
butler box maker	448	bywoman	022	caddy	899
butler charmer	448			cadet	735
butte cutter maker	498			café proprietor	911
butte digger	435			cape attendant (metalliferous mine—above ground)	656
butte maker	448			cape attendant (metalliferous mine—below ground)	654
butte man (goods depot)	706			cape loader	279
butterman (ship assistant—dealing)	770			cape pressman	159
butte marking plate maker	498			capser (colliery)	043
butte mould maker	498			capser (fur dressing)	339
butte print maker	498			capser (metalliferous mine—below ground)	654
butte roller and printer	448			capser (metalliferous mine—above ground)	656
butte rolling and printing attendant	449			capser (textile)	399
butte rolling machine attendant	449			capseron	054
butterscotch maker	448			castringorm cutter	638
butte worker	448			castringorm grinder	638
butte worker's assistant	448			castringorm man	741
but handler	333			castringorm	839
butti haulier	333			cake and plug maker	468
butte lifter	838			cake bagger (oilcake)	949
buttinan	042			cake baker	433
buttocker	042			cake breaker (cocoa)	449
button bore	689			cake corder	468
button bottomer	689			cake grinder	159
button burnisher	689			cake maker, bowl	633
button cleaner	689			cake maker, calender bowl	159
button closer	689			cake maker, compound	399
button coverer	428			cake maker, cotton	399
button coverer, silk	428			cake maker (flour confectiory)	433
button cutter	689			cake maker, linsed	159
button cutter, linen	254			cake maker (liquorice)	449
button dipper	689			cake maker, mangle bowl	435
button driller	689			cake maker, Pomfret	435
buttoner (cap)	410			cake maker, Pontefract	435
buttoner (clothing)	429			cake maker (sand)	183
buttoner, collar	429			cake maker, textile cotton	399
buttoner, cuff	429			cake roller	435
buttoner, glove	429			cake moulder	159
buttoner, shirt collar	429			cake parer	159
buttoner-up	279			cake presser (liquorice)	435
button fuker-out	689			cake presser (oil cake)	159
button finisher	689			cake	435
button hole cutter	429			cake sorter	449
button hole machines	419			cake stower	159
button hole maker	419			cake stripper	449
button hole (button making)	689			cake trimmer	159
buttonhole (refractory)	619			cakelette heater man	159
button hole (clothing)	419			cakelette maker	159
button hole, collar	419			cakelette man	159
button hole, cuff	419			cake warehouseman (oil cake)	940
buttonhole, metal	396			cake weigher	449
button hole twist maker	419			calamine converter	279
button hole worker	419			calamine crusher	279
button maker (general)	689			calamine drier	279
button maker, keyless	324			calamine screener	279
button maker, linen	689			calamine worker	279
button maker, pearl	618			calamintor boy	099
button maker, silk	428			calamintor, calamine	171
button moulder	618			calamintor, blende	171
button piercer	689			calamintor (horns, &c.)	143
button polisher (horns, horns, etc.)	619			calamintor (copper extraction)	171
button polisher (metal, pearl, etc.)	689			calamintor, flint	092
button raiser	689			calamintor, furnace	171
button screener	270			calamintor, magnesite	092
button sewer	419			calamintor, nichel	171
				calamintor, ore	171

Ca

	Code Number.		Code Number.		Code Number.
calciner (ore)	171	camel hair brush maker	533	canvas bag cutter	403
calciner, sand (steel works)	279	camel hair pencil maker	533	canvas buoy maker	418
calciner (soda)	171	chamo grinder	536	canvas dresser	389
calciner, spelter	171	camoo shell cutter	536	canvas primer, artist's	418
calciner, tin	171	camoo stamper	532	canvas quilter	419
calciner attendant	171	camera assembler	522	canvaser, advertisement	774
calciner labourer	279	camera back maker (not metal)	473	canvaser, advertising	774
calcinerman, arsenic	171	camera brass-worker	473	canvaser, book	774
calcinerman, cobalt matte	171	camera cabinet maker	473	canvaser (commercial)	774
calciner man (copper extrac- tion)	384	camera case coverer	486	canvaser, directory	774
calciner man, nickel	171	camera finisher	486	canvaser (dock)	731
calciner waster	171	camera slider	322	canvaser (electricity supply)	639
calender and mangle bowl turner	200	camera maker	322	canvaser, freight	774
calender assistant	384	camera man	527	canvaser, goods traffic	700
calender attendant, linoleum making	518	camera man's assistant	527	canvaser, insurance	785
calender attendant (textile) making	518	camera maker	419	canvaser (railway)	700
calender bowl onto maker	638	Campbell machine operator	414	canvaser, ship's stores	774
calender bowl press man	638	camp equipment maker	498	canvaser (shrinkling)	429
calender bowl turner	200	campher dresser	149	canvaser, traffic	700
calenderer, asbestos	384	campher maker	143	canvassing agent, district	700
calenderer, block	608	campher refiner	148	canvassing clerk	539
calenderer, india rubber	608	campher shop worker	149	canvassing inspector	700
calenderer (job dyeing and dry cleaning)	929	camp stool maker	480	canva stitcher	403
calenderer (laundry)	638	canal agent	581	Cape cart hood maker	630
calenderer (paper making)	518	canal bank labourer	581	cape maker	404
calenderer (rubber)	608	canal bank repairer	738	cap filler (percussion caps)	149
calenderer, rubber	608	canal boat leader	743	cap finisher	410
calenderer (textile)	384	canal boat man	738	cap fixer (electric lamps)	318
calender girl	429	canal boat porter	743	cap frame tender	395
calender hand (laundry)	918	canal bridge turner	741	cap machinist	419
calender hand (rubber)	608	canal clerk	939	cap maker	419
calender holder-through	384	canal homestead	738	cap maker, Army and Navy	419
calender man (compressed paper)	559	canal inspector	731	cap maker, butt (fishing rods)	254
calender man (linoleum)	518	canal lock inspector	731	cap maker (carboard boxes)	552
calender man (paper making)	518	canal miner	581	cap maker (carboard lamps)	254
calender man (rubber)	608	canal mason	581	cap maker (harness)	278
calender man (textiles)	384	canal pilot	733	cap maker, ladies'	406
calender man's assistant	518	canal porter	745	cap maker, military	410
calender minder	918	canal wharf clerk	939	cap maker, percussion	149
call attendant (lymph)	389	canal wharf keeper	939	cap maker (percussion caps)	149
callibrator (electrical instru- ment)	309	canal worker	581	cap maker, servant's	419
callibrator, instrument	309	can box minder	383	cap maker, snap	149
callibrator (scientific instru- ment)	322	can bar	399	cap maker (watch, clock)	324
callibrator, telegraph instru- ment	389	can breaker	383	cap maker, widow's	407
calico cutter	409	canbyman	044	cap man	406
calico dipper	409	condied peel cutter	449	cap milliner (millinery)	406
calico dryer	398	condied peel maker	436	cap milliner (umbrella, parasol)	416
calico drier	359	condier, peel	436	cap peak maker	428
calico engraver	257	condie maker	158	capper, bottle	459
calico frame dipper	409	condie moulder	158	capper (cartridge case)	149
calico frinner	419	condie ornament maker	449	capper (electric lamps)	318
calico mop dresser	598	candle maker	356	capper, end	319
calico paver	399	candle moulder	383	capper (flat hats)	429
calico printer	398	candle ornament maker	449	capper, glass	138
calico printer	383	candlestick maker	472	capper (jute)	138
calico maker	264	can deficer	472	capper, tea (clogs)	299
call boy (railway)	719	can doer	472	capper (umbrella, parasol)	429
call boy (theatre, &c.)	857	can blind maker	472	capper (warehouse)	943
ciller (soda dipper)	706	can body maker	472	capping machinist	279
ciller, guard	706	can chair sorter	499	cap presser	410
ciller, night	929	caner	472	cap primer (percussion caps)	149
ciller, number	949	caner, chair	472	cap spinner (electric lamps)	318
ciller (personal service)	929	caner, faner	472	capstan attendant	365
ciller (railway staff)	719	caner, seat bore	486	capstan driver	706
ciller, staff	709	caner, sorter	486	capstan foreman	706
ciller, train	706	caner, weaver	472	capstan hand, brass	224
ciller-maid	908	can worker	472	capstan lathe hand	200
ciller-out (carriage)	717	can filler	399	capstan lathe operator	200
ciller-out (railway)	706	can finishing minder	399	capstan lathe turner	200
ciller-over, glass	942	canister nurse	909	capstan lathe worker	210
ciller-up (personal service)	929	canister maker	264	capstan man (railway)	705
ciller-up (railway staff)	719	canister maker, green's	264	capstan porter	705
call office attendant	756	canister maker, tin	264	capstan setter	211
call office cabinet cleaner	922	canister making machinist	264	capstan turner	209
callower	074	can maker, beer	264	capule colourer	279
callowman	074	can maker, milk	264	capule maker (fireclay)	149
call's foot felt maker	449	can maker, oil	264	capule maker, polished	149
camb brusher	499	can maker, petrol	264	capule maker, platinum	254
cambler maker	397	can maker, silver (metal)	264	capule making machinist	459
camb (camb) knitter	397	can maker, tin	264	capsuler	733
camb (camb) machinist	397	can maker, water	264	captain, barge	733
camb (camb) maker	237	can minder	443	captain (cable ship)	733
camb-howl grinder	499	can minder	443	captain (clay)	071
cambrel maker	399	can minder	443	captain, clay	071
camb sizer	399	can minder	443	captain (coal mine)	040
camb varnisher	399	can minder	443	captain, dredger	733
		can minder	443	captain, ferry	733
		can minder	443	captain (fishing boat)	009
		can minder	443	captain, float	738
		can minder	443	captain, keel	738
		can minder	443	captain, launch	733
		can minder	443	captain (metalliferous mine or working)	650

Code Number.		Code Number.		Code Number.	
captain, mine (metalliferous mine or working) ...	060	card cutter, jacquard ...	396	card moulder, show ...	540
captain (other mine or quarry) ...	070	card cutter, playing ...	548	card moulder, tint ...	559
captain, mine (other mining)	070	card cutter (stationary) ...	558	card moulder ...	225
captain, mining ...	051	card cutter (textile) ...	396	card needle painter ...	237
captain (navigation) ...	733	card cutter's laser ...	396	card overlooker ...	353
captain (river, barge, lighter, ... etc.) ...	738	card cylinder drillers ...	230	card overseer ...	353
captain (stone quarry) ...	071	card designer ...	396	card press ...	278
captain, superintendent ...	738	card dozier ...	396	card pecker ...	398
captain, underground ...	051	card drawer ...	399	card perforator (jacquard punching) ...	396
captain's boy ...	737	card dresser (card clothing) ...	225	card perforator, pattern ...	552
captain's steward ...	737	card dresser (felt) ...	354	card perforator (stationary, etc.) ...	552
cap tightener ...	949	card edge gilder ...	538	card printer, playing ...	679
cap trimmer ...	366	card embosser ...	552	card printer, post ...	529
caramel breaker-up ...	449	card ender, knisher ...	363	card puncher (jacquard) ...	396
caramel cutter ...	443	card ender (flax, hemp, and jute) ...	363	card puncher (stationary, etc.) ...	552
caramel hand ...	434	carder ...	363	card reader ...	398
caramel maker ...	443	carder, asbestos ...	363	card repairer ...	398
caramel roller ...	435	carder, comb ...	949	card ribboner ...	358
carade of calcium maker ...	143	carder (cotton) ...	363	card driver (motor) ...	720
carbolic acid man ...	143	carder, (flax, hemp) ...	363	card driver, motor ...	720
carbolic acid process worker ...	143	carder, foreign (felt) ...	363	card driver, rail-less ...	701
carbolic acid roamer ...	142	carder, hair ...	363	card driver, rail motor ...	701
carbolic acid stillman ...	142	carder, hair curling ...	363	card driver, stage ...	718
carbolic plant man ...	143	carder, hat ...	410	card roller driller ...	200
carbonsate of ammonia maker ...	143	carder, head (cotton) ...	353	card room grader ...	364
carbonsate of potash maker ...	143	carder, hook and eye ...	949	card room jobber ...	364
carbonsate of soda maker ...	143	carder, horse hair ...	363	card room man ...	399
carbonating man (chemicals)	143	carder (jute) ...	363	card setter ...	225
carbonating man, white lead	459	carder (lace finishing) ...	363	card setting machine minder	225
carbonator ...	143	carder (leather belting) ...	363	card stamp ...	398
carbonator man ...	639	carder, rolling ...	363	card stripper ...	314
carbon brick maker ...	639	carder, (small wares) ...	363	card teeth setter ...	225
carbon brick sopper ...	639	carder, speed ...	363	card tenter (cotton) ...	363
carbon brick maker ...	639	carder (tapes, etc.) ...	363	card tenter (wool) ...	363
carbon brick presser ...	639	carder (textile) ...	363	card trimmer, pattern ...	559
carbon dioxide maker ...	639	carder, tow ...	363	card trimmer (stationary, etc.)	559
carbon dynamo brush maker	639	carder (velours) ...	410	card window ...	200
carbonator ...	639	carder, velours ...	410	card wire cleaner ...	238
carbolic acid gas compressor	229	carder (velours hats) ...	429	card wire drawer ...	268
carbolic acid (case hardening) ...	361	carder (wool) ...	363	card wire dresser ...	238
carbolic acid, cloth ...	361	carder, wool ...	363	card wire giver-out ...	942
carbolic acid (felt, not wares)	361	carder, wool (felt) ...	363	card wiper ...	390
carbolic acid (felt works) ...	639	card feeder (cotton) ...	363	card wiper ...	398
carbolic acid, piece ...	361	card feeder (jute) ...	363	cardetaker ...	921
carbolic acid, rag ...	361	card feeder (wool) ...	363	cardetaker, woodland ...	916
carbolic acid (rags) ...	361	card feeder (wool) ...	363	cardetaker - operator (Post Office) ...	756
carbolic acid (wood) ...	361	card feeder (wool) ...	363	card examiner ...	714
carbolic acid, wool ...	361	card feeder (wool) ...	363	card finisher ...	475-6
carbolic acid, wood ...	361	card feeder (wool) ...	363	card fitter ...	210
carbolic acid, wood ...	361	card feeder (wool) ...	363	card frame setter ...	210
carbolic acid, wood ...	361	card feeder (wool) ...	363	card grader ...	749
carbolic acid, wood ...	361	card feeder (wool) ...	363	card checker ...	749
carbolic acid, wood ...	361	card feeder (wool) ...	363	card inspector ...	731
carbolic acid, wood ...	361	card feeder (wool) ...	363	card receiver ...	731
carbolic acid, wood ...	361	card feeder (wool) ...	363	card superintendant ...	731
carbolic acid, wood ...	361	card feeder (wool) ...	363	card worker (docks) ...	745
carbolic acid, wood ...	361	card feeder (wool) ...	363	card worker, general ...	745
carbolic acid, wood ...	361	card feeder (wool) ...	363	card wood maker, baby ...	658
carbolic acid, wood ...	361	card feeder (wool) ...	363	card hood maker, motor ...	658
carbolic acid, wood ...	361	card feeder (wool) ...	363	card inspector, dynamometer ...	700
carbolic acid, wood ...	361	card feeder (wool) ...	363	card inspector, motor ...	714
carbolic acid, wood ...	361	card feeder (wool) ...	363	card inspector (handways) ...	714
carbolic acid, wood ...	361	card feeder (wool) ...	363	cardman, bonded (not employer)	719
carbolic acid, wood ...	361	card feeder (wool) ...	363	cardman (boke oven works) ...	689
carbolic acid, wood ...	361	card feeder (wool) ...	363	cardman (house driver) ...	719
carbolic acid, wood ...	361	card feeder (wool) ...	363	cardman (ironworks) ...	719
carbolic acid, wood ...	361	card feeder (wool) ...	363	cardman, master ...	719
carbolic acid, wood ...	361	card feeder (wool) ...	363	cardman, pector ...	719
carbolic acid, wood ...	361	card feeder (wool) ...	363	cardman's nipper ...	723
carbolic acid, wood ...	361	card feeder (wool) ...	363	cardman maker ...	148
carbolic acid, wood ...	361	card feeder (wool) ...	363	card oiler ...	279
carbolic acid, wood ...	361	card feeder (wool) ...	363	card painter ...	538
carbolic acid, wood ...	361	card feeder (wool) ...	363	carpenter ...	474
carbolic acid, wood ...	361	card feeder (wool) ...	363	carpenter (bavrel organ) ...	474
carbolic acid, wood ...	361	card feeder (wool) ...	363	carpenter, bowl ...	474
carbolic acid, wood ...	361	card feeder (wool) ...	363	carpenter, bridge ...	474
carbolic acid, wood ...	361	card feeder (wool) ...	363	carpenter, estate ...	474
carbolic acid, wood ...	361	card feeder (wool) ...	363	carpenter, farm ...	474
carbolic acid, wood ...	361	card feeder (wool) ...	363	carpenter, foreman ...	474
carbolic acid, wood ...	361	card feeder (wool) ...	363	carpenter, hedge ...	474
carbolic acid, wood ...	361	card feeder (wool) ...	363	carpenter, hedge-row ...	474
carbolic acid, wood ...	361	card feeder (wool) ...	363	carpenter, house ...	474
carbolic acid, wood ...	361	card feeder (wool) ...	363	carpenter (maintenance) ...	474
carbolic acid, wood ...	361	card feeder (wool) ...	363	carpenter, master (theatre) ...	474
carbolic acid, wood ...	361	card feeder (wool) ...	363	carpenter (on board ship) ...	735
carbolic acid, wood ...	361	card feeder (wool) ...	363	carpenter, pit ...	474
carbolic acid, wood ...	361	card feeder (wool) ...	363	carpenter, rough ...	474
carbolic acid, wood ...	361	card feeder (wool) ...	363	carpenter, rustic ...	474
carbolic acid, wood ...	361	card feeder (wool) ...	363	carpenter, ship's ...	735
carbolic acid, wood ...	361	card feeder (wool) ...	363	carpenter, ship (shipbuilding) ...	474
carbolic acid, wood ...	361	card feeder (wool) ...	363	carpenter, ship (ships right) ...	482
carbolic acid, wood ...	361	card feeder (wool) ...	363	carpenter (shipwright) ...	487
carbolic acid, wood ...	361	card feeder (wool) ...	363	carpenter, stage ...	474
carbolic acid, wood ...	361	card feeder (wool) ...	363	carpenter, tramar ...	474
carbolic acid, wood ...	361	card feeder (wool) ...	363		

	Code Number		Code Number		Code Number
carpenter charge hand	471	carrier, bar (pig iron)	278	carrier, set	399
carpenter-driver	474	carrier, barley	459	carrier, shank	183
carpenter's labourer	499	carrier, batch	459	carrier, sheet	519
carpenter's mate	499	carrier, battery	047	carrier, skip	399
carpet agent	771	carrier, beam	399	carrier (slate mine or quarry)	073
carpet alseer	398	carrier, beer	913	carrier, sliver	399
carpet bag lock maker	243	carrier, board	579	carrier, stemming	047
carpet bag maker	638	carrier, bobbin	399	carrier, stock metal	279
carpet broom maker	633	carrier, bodied	713	carrier, stone (stone works)	589
carpet brush maker	633	carrier, brose	279	carrier (textile mill)	399
carpet cleaner	923	carrier, brick	119	carrier, timber (dock)	745
carpet dyer	383	carrier, bricklayer's board	568	carrier, timber (timber yard)	759
carpet filler	367	carrier, card fillet	279	carrier, tool (coal mine)	047
carpet finisher	379	carrier (cartridges)	149	carrier, tool (metal works)	279
carpet fitter	503	carrier (cement, etc., works)	091	carrier, tow	399
carpet flier	303	carrier, chain (coal mine)	047	carrier, water	718
carpet folder	923	carrier, chain (general)		carrier, welt	399
carpet hammer	419	labourer	970	carrier, wool	399
carpet layer	503	carrier, clay	119	carrier, yarn	399
carpet machinist	419	carrier, cloth (fancy cloth)	639	carrier-away (matches)	399
carpet opener	923	carrier cloth (textile mill)	399	carrier-away (printer's)	549
carpet picker	279	carrier (coal mine)	047	carrier-down (glass works)	139
carpet planer	503	carrier, colour	399	carrier-down (metal trades)	279
carpet printer	383	carrier, cop	399	carrier-in	399
carpet sewer	504	carrier (country-horse)	719	carrier-off (brick)	119
carpet slipper maker	414	carrier (country-motor)	729	carrier-off, dapper's (brick)	119
carpet sorter	923	carrier, cylinder	139	carrier-off (glass)	139
carpet weaver	378	carrier, deal	745	carrier-off (paper)	519
carpet yarn printer	383	carrier, despatch bag	708	carrier-off (photographic plates)	589
car runner	278	carrier, dirt	049	carrier-off (textile mill)	399
carriage and bobbin hand (lanc)	278	carrier, dock	745	carrier-out (paper staining)	549
carriage and wagon inspector	700	carrier, drill (metalliferous mine or working)	054	carrier-out (textile mill)	399
carriage and wagon shunter	704	carrier, drill (metal trades)	279	carrier-up, beamst	119
carriage attendant, club	702	carrier, drill (stone mine or quarry)	072	carrier-up (pottery)	119
carriage attendant (railway)	702	carrier, dust	119	carrier's labourer	719
carriage body designer	932	carrier (elevator attendant in textile mill)	757	carrier's van loader	729
carriage builder	475-6	carrier, fire	709	carrier's warehouseman	940
carriage builder, timber	475-6	carrier, fish box	745	carrotter (fur)	338
carriage cleaner	709	carrier, flat	119	carrotter, fur	338
carriage cleaning inspector	700	carrier (floorcloth)	639	carriage assistant superinten- dent	713
carriage coupler	704	carrier, fruit	745	carriage checker	717
carriage driver, goat	729	carrier, gear	054	carriage contractor	717
carriage driver, hackney	718	carrier (general engineering)	279	carriage foreman, railway	718
carriage driver (horse)	718	carrier (glass)	139	carriage inspector, railway	714
carriage driver, pony	718	carrier, hod	586	carriage loader	729
carriage examiner	709	carrier, iron (bedmaker's belver)	223	carriage manager	700
carriage finisher (coach build- ing)	475-4	carrier, iron (foundry)	918	carriage superintendent	713
carriage finisher (textile machinery)	210	carrier, iron (metal works)	279	cart boy (textile mill)	399
carriage fitter (railway)	475-5	carrier, jink	047	cart boy, top (rope and twine)	399
carriage fitter (textile machinery)	210	carrier, kiln	119	cart boy (transport)	723
carriage foreman	709	carrier, lamp	047	cart builder	475-6
carriage greaser	709	carrier, lap	399	cart builder, milk	475-6
carriage guard	702	carrier (lead ore)	729	cart driver	719
carriage hammerer (fitter)	210	carrier, ladder	753	cart driver, mail	719
carriage hammerer (smith's striker)	190	carrier, letter (railway)	708	cart driver, post	719
carriage joiner (textile machinery)	474	carrier, light	047	cart driver, water	719
carriage labourer	708	carrier, link	043	cartier, chaff	719
carriage lamp maker	264	carrier, loader	399	cartier (farm)	623
carriage lampman	709	carrier, luggage	739	cartier (haulage contracting)	719
carriage lifter	279	carrier, market (horse)	715	cartier, master	713
carriage lighter	709	carrier, marker (motor)	720	cartier (metalliferous mine or working)	054
carriage machinist	210	carrier, metal (foundry labourer)	183	cartier, rubbish	719
carriage maker (coach build- ing)	475-6	carrier, metal (pig iron)	279	cartier (slate quarry)	073
carriage maker, invalid	475-6	carrier (metalliferous mine or quarry)	054	cartier, top (rope and twine)	399
carriage maker, lace	278	carrier, milk	715	cartier, under	023
carriage maker, timber	475-6	carrier, miner's	573	cartier, water	719
carriage master	711	carrier, motor	047	cartier's boy (haulage con- tracting)	723
carriage painter	533	carrier, pick (metalliferous mine or quarry)	054	cartier's boy (on farm)	023
carriage painter, railway	254	carrier, piece	399	cartier's lad	723
carriage pressor-out	711	carrier, pig bed metal	279	cartier's rammer	718
carriage proprietor (stage)	711	carrier, pipe	047	cart tender	278
carriage roller maker	264	carrier, pipiron	745	cart gear forger	190
carriage runner (slave works)	138	carrier, pike	745	cart grease maker	159
carriage scander	706	carrier, pole (linoleum)	639	cart grease man	159
carriage shed foreman	708	carrier, potato	745	cart grease molder	159
carriage smith	190	carrier (pottery)	119	cart grease refiner	159
carriage springer (textile)	278	carrier, prep	745	cart horse finisher	278
carriage spring maker	278	carrier, railway (contractor)	713	cart bond maker, Cape	858
carriage strap foreman	708	carrier, railway (horse)	713	cart bond maker, mail	858
carriage straightener	210	carrier, railway (motor)	729	carting agent	713
carriage strap maker	344	carrier, river (or canal)	256	carting agent, railway (con- tractor)	713
carriage trimmer	504	carrier, rivet	256	carting agent, railway (not employer)	729
carriage trimming waver	378	carrier, roller (paper stain- ing)	549	carting boy	043
carriage upholsterer	504	carrier, roving	399	carting contractor	713
carriage washer	709	carrier (rubber)	609	carting foreman	716
carriage wacker (railway)	709	carrier, rubbish	714	cart loader (colliery)	549
carriage works labourer	659	carrier, sample (metal works)	279	cart loader (road transport)	729
carrier, bag (cement, etc., works)	699	carrier, sample (potter)	759	cart maker	475-4
carrier, bag (docks)	745	carrier, sanitary pipe	119	cart maker, milk	475-6
carrier, bar (iron and steel rolling, puddling tinplate)	279				

Code Number.		Code Number.		Code Number.	
caster, ingot (aluminium) ...	188	catcher (paper making) ...	519	cerendish maker ...	466
caster, ingot (precious metals) ...	290	catcher, pois ...	630	ceiling washer ...	599
caster, iron cabinet ...	183	catcher, rabbit (gamekeeper) ...	519	cellar boy ...	399
caster (iron or steel foundry) ...	183	catcher, rabbit (on farm) ...	539	cellarier ...	455
caster, leach ...	339	catcher, rat ...	539	cellar lad ...	279
caster, lead (foundry) ...	183	catcher, rivet ...	276	cellarman (cotton mill) ...	398
caster, lead (not foundry) ...	276	catcher, riveter's labourer ...	256	cellarman (drink) ...	455
caster, lead plate ...	183	catcher (rod rolling) ...	183	cellar man (metal trades) ...	279
caster, lead (printer's) ...	278	catcher (rolling mill) ...	178	cellar man, oil ...	159
caster, lead (type) ...	278	catcher, sawpit ...	278	cellarman (railway) ...	706
caster, loam ...	184	catcher, sheet ...	519	cellar man (rubber) ...	609
caster, malleable ...	183	catcher, sheet mill ...	178	cellarman, wet ...	396
caster, mechanical ...	524	catcher, shrimp ...	900	cellarman (wool) ...	398
caster, monotype ...	524	catcher, snail ...	399	cellarman, wool (wool sorting) ...	399
caster, nail ...	183	catcher, softer ...	399	cellarman ...	459
caster, needle ...	183	catcher (tinplate) ...	178	cell charger ...	954
caster, nickel silver ...	180	catcher and stickler (wire) ...	178	cell cleaner ...	149
caster, nickel silver ingot ...	298	catcher boy ...	256	cellist ...	386
caster (non-ferrous casting) ...	188	catch band ...	524	cell maker (electrical apparatus) ...	318
caster, oddwork ...	183	catch knocker ...	943	cell maker, object glass ...	322
caster, plasterer rough ...	570	catch man ...	570	cell maker, primary ...	318
caster, putran ...	105	catch stick ...	943	cell maker, secondary ...	302
caster, pillar ...	183	catcher, amusement ...	883	cell room assistant ...	148
caster, plate ...	183	catcher, meat ...	911	cell room man ...	148
caster (pottery) ...	183	catcher, meat (Army) ...	911	celluloid ball maker ...	618
caster, printer's lead ...	278	catcher (restaurant) ...	911	celluloid coaster ...	680
caster (printing) ...	524	catcher, superintendent ...	929	celluloid collar maker ...	619
caster, rail ...	183	catcher's assistant ...	739	celluloid layer (piano key) ...	618
caster, rough ...	567	catchet flower ...	640	celluloid locker-ow ...	618
caster, rough plate ...	138	catchet spinner ...	638	celluloid polisher ...	619
caster, rough (slater) ...	570	catchet wheel ...	639	celluloid turner ...	612
caster, sand (brass, bronze foundryman) ...	184	cathode washer ...	149	cellulose acetate blender ...	143
caster, sand (brass moulder) ...	180	cat's eye cutter ...	638	cellulose acetate dryer ...	143
caster, sanitary ...	115	cat's eye grinder ...	638	cellulose acetate grinder ...	143
caster, shot ...	183	cat's meat man ...	777	cellulose acetate maker ...	143
caster, skillet ...	298	cat's meat woman ...	777	cellulose acetate precipitator ...	143
caster, strip (brass) ...	184	cat'spap maker ...	449	cellulose acetate washer ...	143
caster, strip (precious metals) ...	298	cat'spap ...	796	cellulose maker ...	143
caster, tea lead ...	183	cattle crib maker ...	498	cement block maker ...	698
caster, tin ...	274	cattle dealer ...	770	cement, accumulator case ...	619
caster, tyre pipe ...	183	cattle drover ...	966	cement, battery case ...	619
caster (type) ...	278	cattle farmer ...	911	cement (boot) ...	429
caster, type ...	278	cattle float driver ...	719	cement (building and construction) ...	579
caster, type metal ...	278	cattle float proprietor ...	719	cement (cables) ...	319
caster at machine ...	278	cattle inspector ...	700	cement, card cloth ...	602
caster driver (blast furnace) ...	278	cattle labourer ...	906	cement (celluloid) ...	619
caster-off ...	000	cattle loader ...	706	cement (cement works) ...	099
caster's helper ...	183	catleman, foreman (ship) ...	737	cement, cloth (card clothing) ...	602
caster's labourer ...	183	catleman (on farm) ...	022	cement (coal mine) ...	047
cast house assistant furnaceman ...	279	catleman (railway) ...	706	cement (envelope making) ...	559
cast house furnaceman (cupola hand) ...	182	catleman (ship) ...	737	cement, india rubber ...	606
casthouse furnaceman (yellow metal) ...	184	cattle porter ...	706	cement (leather belt) ...	138
casting dresser (iron or steel) ...	183	cattle superintendent ...	706	cement (lens) ...	606
casting dresser (precious metals) ...	287	cauldron man ...	531	cement (metal capsule) ...	279
casting man ...	279	caulker, boiler ...	278	cement, paper (paper goods) ...	559
casting pit moulder (iron works) ...	279	caulker, boy (swap) ...	159	cement, paper (paper making) ...	519
castings pot maker ...	103	caulker (electricity supply) ...	692	cement (prism) ...	130
castings dresser (brass) ...	185	caulker (hand) ...	278	cement, rubber ...	600
castings cleaner (iron, steel foundry) ...	183	caulker, hand ...	278	cement (rubber goods) ...	606
castings dresser ...	185	caulker (iron) ...	278	cement, ship ...	579
castings fettler ...	185	caulker (machine) ...	278	cement (stained glass) ...	138
castings grinder ...	237	caulker, machine ...	278	cement (tooth brush) ...	606
castings passer ...	278	caulker (pipes) ...	278	cement, waterproof ...	606
cast lad (rolling mill) ...	279	caulker, pneumatic ...	278	cement filler ...	099
cast lad (steel foundry) ...	279	caulker (roap) ...	159	cement flag maker ...	098
cast-off ...	000	caulker, wood ...	482	cement ganger ...	090
caster maker ...	115	caulker maker ...	482	cement grinder ...	099
cast worker (bertram) ...	283	caulking mallet maker ...	190	cement gun operator ...	581
catch boy (coal mine) ...	571	caulm brusher ...	399	cement kiln man ...	092
catch boy (river's helper) ...	256	caulm mixer ...	399	cement loader ...	099
catcher, back ...	178	caulm varnisher ...	399	cement maker (linoleum) ...	559
catcher, bar (iron, steel, tinplate) ...	279	causwayman (pavior) ...	579	cement miller ...	099
catcher, bird (on farm) ...	024	causwayman (stone mine or quarry) ...	072	cement mixer ...	099
catcher, bird (singing birds) ...	989	causwayman ...	072	cement pecker ...	099
catcher, cigarette ...	469	causway and spent lye hand (soap) ...	159	cement sampler ...	098
catcher (cigarette making) ...	469	causic finisher ...	143	cement tester ...	098
catcher, cold roll (galvanized sheet) ...	279	causic fireman ...	143	cement worker ...	099
catcher, cold roll (iron and steel rolling) ...	279	caustician ...	143	cemetary garden ...	013
catcher, cold roll (tinplate) ...	279	causticerman (chemicals) ...	143	cemetary labourer ...	013
catcher, oil ...	090	causticerman (paper making) ...	519	cemetary mason ...	072
catcher, finishing ...	183	causticier man, soda (paper manufacture) ...	143	catcher ...	044
catcher (foundry labourer) ...	183	caustic liquor maker ...	519	catcher ...	200
catcher, front ...	178	caustic maker ...	143	catcher, axle ...	200
catcher, iron ...	183	caustic mixer (paper making) ...	519	catcher (optical lens) ...	138
catcher (jute) ...	399	caustic mixer (chemicals) ...	143	catcher (spectacle lens) ...	138
catcher, jute opener ...	362	caustic packer ...	149	centering machine ...	200
catcher (laundry) ...	918	caustic potash maker ...	143	centre boss turner ...	090
catcher, mole ...	099	caustic soda maker ...	143	centre crane man ...	200
		caustic soda man ...	143	centre cutter (pens) ...	254
		caustic weak liquor man ...	143	centre dresser ...	279
		cave emptier ...	139	centre dresser, wheel ...	279
		cevean ...	139	centre glazier (wheel) ...	190
				centre timber, cricket ball ...	568
				centre maker (paper winding) ...	618

	Code Number.		Code Number.		Code Number.
centre maker (shirts) ...	419	chair cross framer ...	473	changer, roller (wall paper printing) ...	549
centre maker, wheel ...	190	chair drawer ...	729	changer, rope ...	043
centremen (printer's roller) ...	688	chair drawer, bath ...	729	changer, wagon ...	704
centre (piano action) ...	648	chairs (general labourer) ...	970	changer, wheel ...	354
centre (railway axle, &c.) ...	260	chairer (railway) ...	577	changer-off (flax and hemp) ...	399
centre tapper ...	279	chair filler-up (case) ...	472	changing hose keeper ...	656
centrifugal attendant ...	149	chair frame maker ...	473	changing house man ...	429
centrifugal chaffer ...	148	chair framer ...	473	channel closer ...	429
centrifugal machine ...	448	chain letter, bath ...	729	channeler (stone mine or quarry) ...	073
centrifugal machine charger ...	449	chair letter (bath chair) ...	729	channeler (slip metal) ...	254
centrifugal machine charging man ...	449	chair maker, basket ...	472	channel opener ...	429
centrifugal machine man ...	449	chair maker, bath ...	475-6	channel opener, smole ...	429
certified manager ...	040	chair maker, bath (worker) ...	472	channel opener, outside ...	429
certificated under-manager ...	040	chair maker, (case) ...	472	channeler, sole ...	429
chackler ...	043	chair maker, invalid ...	472	channeler (slip mine or quarry) ...	073
chaff cutter ...	449	chair maker, invalid (washed carriage) ...	475-6	channeler (strap metal) ...	254
chaffman ...	449	chair maker, iron ...	130	channel opener ...	429
chain beamer ...	367	chair maker, railway ...	130	channel opener, smole ...	429
chain bearer (colliery) ...	047	chair maker, wheel ...	475-6	channel opener, outside ...	429
chain bearer (general labourer) ...	970	chair maker (wood) ...	473	charabanc conductor ...	724
chain bracelet maker ...	284	chair man, bath ...	729	char-a-banc driver, motor ...	720
chain cable maker ...	190	chairman (glass) ...	124	char cutters filler ...	449
chain carrier (colliery) ...	047	chair matter ...	124	charcoal burner ...	638
chain carrier (general labourer) ...	970	chair mender ...	472	charcoal burner, aumid ...	130
chain drawer ...	278	chair moulder ...	180	charcoal cutters filler ...	449
chainer (bleaching) ...	399	chair moulder, railway ...	180	charcoal filler ...	449
chainier (coal mine—below ground) ...	047	chair nail stamper ...	254	charcoal filter man ...	449
chainier (coal mine—basage) ...	043	chair paperer ...	489	charcoal grinder ...	149
chainier (warping) ...	367	chair proprietor ...	729	charcoal house man ...	449
chain examiner ...	731	chair proprietor, bath ...	729	charcoal lumper ...	172
chain horse boy (hauling, &c.) ...	729	chair proprietor, wheel ...	472	charcoal man ...	279
chain horse boy (river or canal) ...	738	chair ruder ...	472	charcoal sifter ...	172
chain horse driver ...	704	chair scrubber ...	183	charcutier ...	770
chain horse lad ...	704	chair water ...	472	char end man ...	449
chain inspector (coal mine) ...	041	chair shaper ...	481	charer ...	922
chain inspector (metalliferous mine or working) ...	051	chair stuff maker (sawyer) ...	498	char filler (calined ironstone) ...	279
chain inspector (railway) ...	190	chair stuff maker (wood-work- ing machinist) ...	498	charge checker ...	706
chain joiner ...	190	chair stick turner ...	486	charge driver, retort ...	693
chain pointer ...	190	chair tacker inspector ...	529	charge engineer ...	691
chain roller ...	398	chair turner ...	439	charge hand (artificial stone, cement) ...	091
chain linker (gold, silver) ...	284	chair wheel ...	729	charge hand, boiler ...	161
chain linker (mesh bag mak- ing) ...	284	chair wheel, bath ...	729	charge hand, carpenter ...	471
chain maker, block ...	190	chair wolver ...	472	charge hand, centrifugal machine ...	448
chain maker, brass ...	278	chalk blaster ...	074	charge hand (electricity sup- ply) ...	691
chain maker (chain warp) ...	367	chalk burner ...	082	charge hand (gas action) ...	143
chain maker, clock ...	324	chalk (boiler sinking) ...	047	charge hand (pointing and decorating) ...	591
chain maker, coal ...	190	chalk (leather dressing) ...	047	charge hand (sugar refinery) ...	448
chain maker (cycle) ...	279	chalk (lustering) ...	428	charge hand (tramways) ...	716
chain maker, dollied ...	190	chalk roller ...	099	charge hand (watch and clock making) ...	321
chain maker, fusse ...	324	chalk wheel ...	099	charge hand fyman (theatre) ...	897
chain maker (gold and silver) ...	284	chamber, barrel (gun) ...	280	charge house man ...	149
chain maker, hammered ...	190	chamberer (gun barrel) ...	280	chargeman, cleaner ...	701
chain maker (iron and steel) ...	190	chamberer, gun barrel ...	280	chargeman, cleaner shed ...	701
chain maker (machine) ...	298	chamber kiln man ...	092	chargeman (coal mine) ...	041
chain maker, mooring ...	190	chamberman ...	901	chargeman (copper smelting) ...	279
chain maker, steering ...	190	chamberman, horse ...	901	charge max (explosives) ...	148
chain maker, tumbled ...	190	chamber man, acid ...	143	chargeman, night ...	041
chain maker, twist ...	190	chamber man (acid) ...	143	chargeman (other non-metal- liferous mine or quarry) ...	071
chain maker, watch (gold and silver) ...	284	chamber man (cement) ...	042	charge mix (patent fuel, ash works) ...	091
chain maker, watch (not gold or silver) ...	298	chamberman (gold storage) ...	362	chargeman, polish ...	151
chain making machinist (cycles) ...	254	chamberman, oil ...	159	chargeman, press ...	143
chainman (coal mine) ...	047	chamber man, sulphuric acid ...	143	chargeman (railway) ...	561
chainman (general labourer) ...	970	chamber man (white lead) ...	149	chargeman (seed crushing) ...	159
chainman (stone mine or quarry) ...	072	chamber master ...	331	chargeman, shed ...	709
chainman (water works) ...	639	chamferer ...	200	chargeman, signal ...	709
chainman (wharf or quay) ...	749	chamferer, barrel ...	200	charge mix (fine) ...	279
chain mesh machine operator ...	284	champher ...	200	chargeman engine cleaner ...	701
chain minder ...	399	channery clerk ...	278	chargeman brewer ...	042
chain puller ...	279	chandler fitter ...	278	charge mixer ...	279
chain repairer ...	278	chandler ornament maker ...	221	charge moulder ...	148
chain runner ...	043	chandler, corn ...	770	charge patter-up (puddled bars) ...	279
chain setter ...	398	chandler, ship ...	770	charge patter-up (steel) ...	279
chain-smith ...	190	chandler, tailor ...	770	charger, accumulator ...	554
chain sticher ...	618	chandler (wholesale, retail dealings) ...	770	charger, blast works furnace ...	279
chain striker ...	190	changer (house keeper) ...	056	charger (blast furnace) ...	279
chain tender ...	043	change house man ...	056	charger, blast furnace ...	279
chain turner ...	398	changer and gruther (coal mine) ...	047	charger, brass tube ...	279
chain warper ...	367	changer and grather (metalli- ferous mine or working) ...	034	charger, cartridge ...	149
chain welder ...	190	changer, beam ...	398	charger, cell ...	954
chain worker (cycle) ...	279	changer, card ...	398	charger, centrifugal machine ...	449
chain worker, cycle ...	279	changer, drill ...	054	charger (rook oven) ...	088
chair attendant, bath ...	729	changer (flax and hemp) ...	399	charger, cupola (Bessemer steel) ...	279
chair attendant (park, beach, &c.) ...	729	changer, frame ...	399	charger, cupola (iron or steel foundry) ...	182
chair binder ...	504	changer, gold ...	399	charger, drill (coal mine) ...	047
chair bottomer (case) ...	472	changer (laced) ...	399	charger, drill (metalliferous mine or working) ...	054
chair bottomer (wood) ...	488	changer, money ...	790	charger, flux dust ...	279
chair cawer ...	472	changer, plough ...	729		
chair carver ...	465	changer, roll ...	278		
		changer, roller (textile print- ing) ...	399		

	Code Number.		Code Number.		Code Number.
charger, furnace (blast furnace)	279	checker (coal mine)	047	chemical tester	306
charger, furnace (iron or steel foundry)	182	checker, coal (railway)	706	chemical worker	148
charger (gas retort)	633	checker, fish	706	chemical worker (paper making)	519
charger, hand burner	149	checker, furniture	700	chemical works labourer	148
charger, hydraulic (puddling furnace)	276	checker, gauge	278	chemist	380
charger, hydraulic (rolling mill)	278	checker, glass	139	checking machine minder	380
charger, kiln	449	checker, goods	706	chemist mixer	380
charger (limelight mixing)	639	checker, grain	706	chemist	770
charger (limonite seasoning)	639	checker, iron (shipbuilding)	164-165	chemist, dispensing	770
charger (metalliferous mine or working)	664	checker (laundry)	918	chemist, homeopathic	770
charger, nickel cupola	279	checker, lavatory	923	chemist, pharmaceutical	770
charger, ore	279	checker, linen	923	chemist and druggist	770
charger (puddling furnace)	276	checker (metal trades)	273	chemist's apprentice	775
charger, retort (gas works)	693	checker, muleage	706	chemist's assistant	775
charger, retort (shale oil)	149	checker, milk	706	chemist's boy	099
charger, rocket	171	checker, moulding	495	chenille cutter	396
charger (rolling mill)	171	checker (paper staining)	549	chenille	385
charger, second hand	279	checker, parcel	706	chenille setting weaver	370
charger (slag and slag wool)	270	checker (penholders)	682	chenille twister	385
charger, spare	279	checker (piano)	278	chenille web weaver	370
charger, spigot	279	checker, piecework	549	chewie estimator	521
charger (steel)	278	checker, printer's	549	cheque number	549
charger (stone mine or quarry)	449	checker, private	729	cheque printer	529
charger (sugar refining)	449	checker (puddling furnace)	706	chequer	480
charger (tinplate)	173	checker (railway)	706	chequer bunch maker	468
charger, tube	279	checker, raily	706	cheeroot maker	468
charger (tubes)	171	checker, sack	942	cheert burner	092
charger, wool (surgical appliances)	689	checker, sample (steel manufacture)	278	cheert dresser	575
charger driver	278	checker, senior	706	cheert quarrier	072
charger man	088	checker, shawl	706	chees board maker	588
charger operator	278	checker, ship	706	cheest maker, sea	474
charger's helper	278	checker (soup)	139	cheest maker, tea	479
charge signman	703	checker (stationery)	558	cheest maker, tool	474
charge taker (iron and steel rolling)	279	checker (stone)	942	cheestnut roaster	777
charge taker (puddling)	279	checker (treats)	449	cheest of drawers maker	473
charge taker (steel works)	279	checker, tea	942	chevante	467
charge weigher (blast furnace)	276	checker, textile mill	399	cheiken butcher	448
charge weigher (pancoction)	149	checker, ticket (stone mine or quarry)	072	cheiken farmer	511
charge wheeler	279	checker, ticket (railway)	705	cheiken fitter	039
charging machine driver	693	checker, timber (docks)	749	cheiken picker	039
charging man, centrifugal machine	449	checker, timber (wood yard, dock)	499	cheiory roaster	449
charging man, kiln	449	checker (tongade)	278	chief accountant	931
charging man (sugar refining)	449	checker, wireage	449	chief assistant engineer	690
charging rack attendant	953	checker, wood	439	chief booking clerk	939
char-lady	930	checker, wool	749	chief book-keeper	931
chartered secretary	930	checker and deliverer	749	chief butcher (ship)	737
charter, ship	730	checker loader	706	chief cashier	931
charter master	041	checker-up	939	chief cashier (bank)	791
chart mounter	548	check examiner	706	chief clerk (ship)	737
chartographer	528	check loader	942	chief clerk	931
charwoman	922	check maker	042	chief clerk, assistant	939
chaser, bell	185	checkman	706	chief clerk (bank)	791
chaser (brass)	278	check station man	962	chief clerk (insurance, &c., company)	793
chaser (carriage building)	278	check taker (coal mine)	047	chief collector	731
chaser, cast work	283	check taker (theatre, &c.)	089	chief controller	700
chaser, coffin plate	278	check weigher (colliery)	048	chief cook (ship)	737
chaser (engraving)	283	check weigher (docks)	749	chief costs clerk	931
chaser (general engineering)	278	checkweigher (iron and steel rolling)	279	chief designer	932
chaser, harness furniture	278	checkweigher (manure works)	539	chief draughtsman	932
chaser, lathe	278	check weighman (colliery)	042	chief draughtsman, assistant	932
chaser, belt	278	check weighman (docks)	749	chief dresser	051
chaser, plate work	281	checkweighman (iron and steel rolling)	279	chief drum man	331
chaser (progress clerk)	939	checkweighman (iron foundry)	279	chief electrician	381
chaser, sword hilt	278	check weighman (metalliferous mine or working)	056	chief electrician (cable ship)	381
chasing tool maker	190	cheek and corner maker	572	chief engineer (ship)	734
chaos creator	210	checker (pannos)	473	chief engineer (waterworks, etc.)	690
chaos finisher (Etter)	210	checker and planter	473	chief foreman	700
chaos finisher (pamier)	210	cheese maker, bondon	448	chief goods inspector	700
chaos filter	210	cheesemaker (dairy farmer)	011	chief goods manager	700
chaos frame bender	262	cheesemaker (for farmer)	022	chief inspector (omnibus, tramway)	714
chaos frame builder	210	cheese maker, lactic	448	chief inspector (F.O. Engineering Dept.)	301
chaos frame erector	210	cheese maker, lemon	448	chief inspector of materials	700
chaos painter	593	cheese maker (not on farms)	448	chief ironwork inspector	700
chauffeur	720	cheese maker, soft	448	chief ironing teler (omni-bus)	729
chauffeur mecano	720	cheese maker's assistant	448	chief linesman (railway)	311
chauffeur	720	cheesemonger	770	chief linesman (signal)	261
check clerk, canal	630	cheese (wilk)	371	chief mate	733
checker, bank note	540	cheese winder	387	chief number taker	706
checker (cargo)	749	choosing frame minder	371	chief officer (cable ship)	733
checker, cargo	749	choosing frame tender	371	chief officer (merchant service)	733
checker, carriers'	717	chof, chief (ship)	737	chief of police	700
checker, carriage	717	chof (ship)	737	chief pump and liquor blender	331
checker (cartridges)	717	chief de mine	930	chief rating clerk (not local authority)	931
checker, cork	706	chief apparatus maker	149	chief rounder	331
checker, charge	706	chemical blower	124	chief sorter	331
checker (clerk)	939	chemical glass blower	149	chief special examiner	700
checker (clothing trades)	401	chemical labourer	149	chief spiritist	331
checker, coal (electricity, gas works)	696	chemical plumber	242		
		chemical plumber's labourer	279		

	Code Number.		Code Number.		Code Number.
chief steward	737	chockler	047	cigarette cutter	948
chief storekeeper (railway)	700	chock loader (colliery—above ground)	049	cigarette cutter-off	949
chief storekeeper (Post Office)	941	chock leader (colliery—below ground)	047	cigarette holder maker	949
chief stewards	737	chocoman	047	cigarette machine attendant	949
chief stores superintendent	736	chocolate baker	949	cigarette machine feeder	949
chief toilet	735	chocolate coverer	435	cigarette machine operator	949
chief ticket collector	735	chocolate cream covering	435	cigarette machine receiver	949
chief ticket examiner	760	machine attendant	435	cigarette maker	949
chief ticket inspector (traveling)	700	chocolate dipper	435	cigarette packing machine	949
chief traffic manager (dock)	731	chocolate grinder	448	cigarette packing machine	949
chief travelling examiner	700	chocolate ladder	448	cigarette roller	949
chief viewer	040	chocolate machine fitter	210	cigarette sorter	949
chief wireless engineer	393	chocolate mixer	448	cigarette tape maker	949
chief yardman	739	chocolate man	448	cigar examiner	949
children's makers	421	chocolate mixer	448	cigar flapper	949
children's attendant (poor law)	900	chocolate mixer attendant	448	cigar labeler	949
children's coat maker	404	chocolate moulder	435	cigar maker (hand)	949
children's costume machines	419	chocolate packer	949	cigar maker (machined)	949
children's maid	900	chocolate powder grinder	448	cigar mouder	949
children's nurse	930	chocolate powder sifter	448	cigar packer	949
child's light maker	158	chocolate seller	388	cigar passer	949
child's light runner	158	chocolate sifter	448	cigar ringer	949
childer	279	chocolate tablet maker	435	cigar roller	949
chimney builder	565	chocolate timber	949	cigar sorter	949
chimney master	232	chocolate wrapper	448	cigar taker (cloth folding)	949
chimney maker (boiler)	576	chophouse boy	911	cigar taker (wet cloth)	949
chimney piece maker, marble	576	choy house keeper	435	cinder boy	949
chimney piece maker (slate)	576	chopper, angle	435	cinder breaker (blast furnace)	949
chimney piece maker (stone)	572	chopper, bark	435	cinder breaker (slag)	949
chimney-piece maker (wood)	474	chopper, board (bookbinder's)	548	cinder burner (blast furnace)	949
chimney pot maker	102	chopper (boats)	439	cinder burner (coke oven)	949
chimney repainer	585	chopper (carpets)	543	cinder filler	949
chimney shaft builder	588	chopper, ship	439	cinder getter	949
chimney shaft feller	588	chopper, gum	439	cinder picker, bush	949
chimney sweep	102	chopper, lift	153	cinder roaster	949
chimney top maker	102	chopper, plaster	938	cinderman (general labourer)	949
china and glass dealer	770	chopper, rag	519	cinderman (metal works)	949
china bric-a-brac emplet	119	chopper, rug	403	cinder picker (cobalt)	949
china caster	105	chopper (shard making)	438	cinder picker, cobalt	949
china clay grinder	089	chopper, skillet	438	cinder shaver	949
china clay preparer	089	chopper, snipe	449	cinder sifter	949
china dish maker	105	chopper, wood (firewood)	439	cinder thrower	949
china dross furniture maker	105	chopper, wood (wood pulp)	439	cinder tipper	949
china grass worker	399	chopper maker	191	cinder wheeler (general labourer)	949
china kiosk maker	105	chopperman, rag	519	cinder wheeler (puddling furnace)	949
china kiln tinner	105	choppler, cork	448	cinema actor	949
china maker	389	choppler, leather	947	cinema actress	949
china repairer	919	chop place hand	448	cinema attendant	949
china runner	118	chorister	886	cinema film producer	949
china turner	118	chorus girl	886	cinema operator	949
chinaware scower	829	Christmas card maker	548	cinematographer	949
chine glazer (dyer's and cleaner's)	472	chrome brick maker	102	cinematograph camera	949
chip books maker	496	chrome handler	333	cinematograph operator	949
chip breaker	496	chromes	143	cinematograph operator's assistant	949
chip chopper	185	chromium artist	328	circle copier shearer	949
chipper (beam, broom foundry)	564	chromo-lithographic printer	529	circle cutter	949
chipper, brick	276	chronometer box maker	473	circle driller	949
chipper (caulker)	254	chronometer case maker	325	circle finisher	949
chipper (fish hooks)	279	(watch, clock)	473	circle hand	949
chipper, iron bedstead	183	chronometer case maker	473	circle pin filler	949
chipper, iron hollowware	183	chronometer defect maker	324	circle round making	949
chipper (iron or steel foundry)	279	chronometer escapement	324	circle (textile machinery)	949
chipper, ladle	279	maker	324	circle work worker	949
chipper (metal works)	448	chronometer maker	324	circle writer (card clothing)	949
chipper, orange	589	chronometer movement maker	324	circle setter (textile machinery)	949
chipper (paint, etc.)	139	chucker, bobbin	099	circumferencer	949
chipper, pot (glass works)	279	chucker, coal	099	circumferencer breaker	949
chipper, pot (metal trades)	183				

	Code Number.		Code Number.		Code Number.
claymoyant	895	cleanser, bench	279	cleanser (factory floor)	970
clammer (coal mine)	043	cleanser, berth	970	cleanser, leather	632
clammer (dies, seals, etc.)	276	cleanser, biscuit	118	cleanser (fellowingery)	338
clammer (roller engraving)	276	cleanser, bleach creft (cloth cleaning)	360	cleanser, filter-bed	699
clamper (roller engraving)	276	cleanser, bleach creft (machine cleaning)	339	cleanser, filter press	148
clamper (textile finishing)	334	cleanser, blende	279	cleanser, fire	799
clamp man	119	cleanser, bobbin (worsted spin- ning)	389	cleanser, fire appliance	319
clapper	609	cleanser, bogie (metaliferous mine or working)	066	cleanser, flat	448
clasher man	159	cleanser, bogie (railway roll- ing stock)	659	cleanser, floor	970
clastinet maker	643	cleanser, boiler	502	cleanser, flue (blast furnace)	279
clastometist	686	cleanser, boiler house (electric ity supply)	639	cleanser, flue (colliery)	049
clarker (warper's assistant)	396	cleanser, boiler house (general labour)	639	cleanser, flue (gas works)	399
clarker (wood winding)	386	cleanser, boiler tube	952	cleanser, flue (not blast furnace or gas works)	924
clasper, book	532	cleanser, boiler tube and daz	952	cleanser, foreman conduit	701
clasper, elg	429	cleanser, bone	155	cleanser, frame (cycle)	279
clasper (glaze)	429	cleanser, boot	429	cleanser, frame (self-propelled road vehicle)	599
clasper (fellowingery)	338	cleanser, boot factory	429	cleanser, France	929
clasper, hide	338	cleanser, bottle	682	cleanser, fruit	448
clasper (leather)	338	cleanser, box (electricity supply)	682	cleanser (fur dressing)	338
clasper, leather	338	cleanser, box (textile mill)	185	cleanser, fur (bats)	429
clasper, skin	338	cleanser, brass (foundry)	279	cleanser, garment	529
clasper, wool	360	cleanser, brass (metal trades)	922	cleanser (gassing)	399
classifier (lumps)	318	cleanser, brass (other)	922	cleanser (gas works, water- works)	699
classifier (leather)	338	cleanser, brass (vehicles)	729	cleanser (glass)	138
classifier (paper mill)	964	cleanser, brick	564	cleanser, glass	139
clatter (celluloid)	618	cleanser, bristle	639	cleanser, glass (photographic plates, etc.)	609
clash lin man	279	cleanser, bundle	056	cleanser, glost	919
clay barrowman	119	cleanser, building steam	589	cleanser, glove	919
clay burner	184	cleanser, button	669	cleanser, half ball mould	609
clay blunger	119	cleanser, cab	729	cleanser, goods brake van	706
clay boiler	119	cleanser, call office cabinet (U.P.O.)	922	cleanser (grain milling)	970
clay bog (iron and steel)	279	cleanser, camphor	149	cleanser, grain (screwing)	432
clay burner (building)	561	cleanser, card	364	cleanser, grain (washing)	449
clayburner, foreman (railway)	561	cleanser, card wire	238	cleanser, guide	799
clay burner (railway)	071	cleanser, carpet	922	cleanser, gully	970
clay captain	119	cleanser, carriage	709	cleanser, gum	919
clay carrier	119	cleanser (cartridge case)	250	cleanser, gutta percha	448
clay dresser	074	cleanser, cast	459	cleanser, hand	639
clay feeder	119	cleanser, castings (brass, bronze foundry)	185	cleanser, harness	729
clay filler	074	cleanser, castings (iron or steel foundry)	185	cleanser, hat	429
clay flay maker	069	cleanser, cell	149	cleanser, head	399
clay grinder	104	cleanser, celluloid	619	cleanser (holzer-ware, iron cannelling, jappanning, tin- plate, etc.)	250
clay maker	104	cleanser, charge-man engine	701	cleanser, hose box	702
clayman (clay pit)	279	cleanser, chimney	924	cleanser, house	926
clay man (cooper saw/ling)	519	cleanser, chip potato	929	cleanser, hydraulic	679
clay mixer (paper making)	104	cleanser, church	922	cleanser, india rubber	299
clay mixer (pottery)	399	cleanser (clay slip)	119	cleanser, iron	183
clay mixer (textile mill)	279	cleanser, clock	323	cleanser (iron or steel foundry)	183
clay mixer's helper	118	cleanser, cloth (linoleum, oil- cloth)	639	cleanser, ironstone	056
clay modeller	119	cleanser, cloth (woollen cloth, etc. finishing)	364	cleanser, jacket (phonograph records)	149
clay picker	119	cleanser, clothes	929	cleanser, jet	449
clay pipe maker	119	cleanser, coal	049	cleanser, knife	233
clay potter	104	cleanser, cocos bean	449	cleanser, key	329
clay preparer	104	cleanser (colliery)	042	cleanser, lace	399
clay pressman	104	cleanser, conduit	729	cleanser, ladle	279
clay pugger	104	cleanser, controller	729	cleanser (lumps)	319
clay pug man	104	cleanser, copper	159	cleanser, lamp (coal mine)	047
clay pug miller	104	cleanser, cotton seed	159	cleanser, lamp (gas works)	699
clay roller	119	cleanser, cruse	950	cleanser, lamp (metaliferous mine or working)	629
clay runner	119	cleanser, current	449	cleanser, lead	729
clay scraper	119	cleanser, cycle	279	cleanser, lens	139
clay slip maker	119	cleanser (cycle making)	279	cleanser, lid	609
clay stickler	119	cleanser, dairy vessel	570	cleanser, line	899
clay tank attendant	090	cleanser, diamond	638	cleanser, lithographic plate or stone	549
clay tapper	104	cleanser, diamond mill	638	cleanser, loom	399
clay tobacco pipe dipper	107	cleanser, dipper's	119	cleanser, metal	449
clay tobacco pipe finisher	119	cleanser, door (gas works)	026	cleanser, metal (iron foundry)	183
clay tobacco pipe maker	118	cleanser, drum	279	cleanser (metal trades, not cast- ings cleaner)	279
clay tobacco pipe moulder	118	cleanser, drill	279	cleanser, mill	159
clay tobacco pipe paperer	949	cleanser, driller's bench	279	cleanser, motor (electricity supply)	692
clay tobacco pipe potter	118	cleanser, drum	159	cleanser, motor (electric rail- way)	701
clay tobacco pipe roller	119	cleanser, drum and barrel	970	cleanser, motor (motor vehicle, trucks)	729
clay tobacco pipe sander	119	cleanser, dry	929	cleanser, mould	279
clay tobacco pipe paperer	119	cleanser, dye vat	429	cleanser, mundie	149
clay tobacco pipe sander	119	cleanser, economiser	962	cleanser (musical instruments)	279
clay tobacco pipe sander	119	cleanser (electricity supply)	695	cleanser, mustard seed	448
clay tobacco pipe sander	119	cleanser, engine (electricity supply)	699	cleanser (needles)	238
clay tobacco pipe sander	119	cleanser, engine (loco.)	701	cleanser, nickel shed decom- poser	279
clay tobacco pipe sander	119	cleanser, engine (motor vehicle)	729	cleanser, oatmeal	432
clay tobacco pipe sander	119	cleanser, engine (stationary)	950		
clay tobacco pipe washer	119	cleanser, engine-room (electric city supply)	699		
clay trader	119	cleanser, engine-room (general labour)	570		
clay waterer	119				
clay wheeler	119				
clay wheeler (blast furnace)	279				
clay wheeler (patent fuel, &c.)	089				
clay wheeler (pottery works)	119				
clay worker, alum	074				
clay worker (clay pit)	074				
clay worker (pottery)	105				
cleanser, algrate	970				
cleanser, are lamp	696				
cleanser, ash bag	579				
cleanser, ash box	729				
cleanser, bag	429				
cleanser (bank, hall, library, messroom, office, school, etc.)	922				
cleanser, bark	499				
cleanser, barley	459				
cleanser, bedding	502				
cleanser, belt	056				

	Code Number.		Code Number.		Code Number.
cleaner, omnibus	729	cleaner, seag (tube drawing)...	279	clerk	939
cleaner, ore	056	cleaner, tongue	448	clerk, accountant's	939
cleaner, ostrich feather	632	cleaner, top	049	clerk, accounts	939
cleaner, pan (gas works)	690	cleaner, track (tramway)	729	clerk, accounts (railway)	939
cleaner, pan (seed crushing, oil cake)	159	cleaner, tramcar	729	clerk, actuary	939
cleaner, pan (wood pulp)	519	cleaner, trap	729	clerk, advertising	939
cleaner, passed	701	cleaner, tripe	448	clerk, allocation	939
cleaner (photographic plates)	689	cleaner, tub (colliery)...	049	clerk, assistant chief	939
cleaner (printing)	489	cleaner, tub (metaliferous mine or working)	056	clerk, assistant (ship)	737
cleaner, picture	369	cleaner, tube (blast furnace)...	279	clerk, assistance company's	939
cleaner, piece	943	cleaner, tube (railway)	709	clerk, audit	939
cleaner, pig iron	279	cleaner, tube (salt works)	099	clerk, authorised (Black Ex- change)	939
cleaner, pipe (gas works)	699	cleaner, tyres, etc.	609	clerk, baggage	939
cleaner, pit (railway)	709	cleaner, underframe	619	clerk, balance	939
cleaner, pit (steel works)	279	cleaner, vacuum	923	clerk, bank	939
cleaner, plane	044	cleaner (vehicle)	729	clerk, barrister's	939
cleaner, plaster	090	cleaner, vessel	022	clerk, bill	939
cleaner, plate	923	cleaner, wagon and cattle pen	706	clerk, booking (railway)	939
cleaner, point (railway)	719	cleaner, warp	118	clerk, booking (shipping service)	939
cleaner, point (tramways)	729	cleaner, washmill	399	clerk, bookmaker's	939
cleaner (polish)	570	cleaner, waste	099	clerk, bought ledger	939
cleaner, pond	049	cleaner, watch	323	clerk, box office	939
cleaner, potato	449	cleaner, watch and clock	323	clerk, box office	939
cleaner (precious metals)	299	cleaner, wax figure	639	clerk, canal check	939
cleaner, press (rolling mill)	159	cleaner, way	044	clerk, canal wharf	939
cleaner, press (wood crushing)	549	cleaner, wet	918	clerk, canvassing	939
cleaner, printer's	362	cleaner, wheel	619	clerk, cardinals	939
cleaner, rag	279	cleaner, window	923	clerk, cash	939
cleaner, rail drill	729	cleaner (warp, wire netting, wire rope)	279	clerk, cash	939
cleaner, rail (tramways)	338	cleaner (wool finishing)	384	clerk, cashier	939
cleaner, ramme	699	cleaner (woollen cloth)	384	clerk, chief	939
cleaner, rebar (gas works)	149	cleaner, wood (wood pulp)	469	clerk, chief (insurance, etc., company)	750
cleaner, rebar pipe	449	cleaner, wood (wood yard)	489	clerk, chief rating (not local authority)	931
cleaner, rice	183	cleaner, yard	970	clerk, claims department (omnibus company)	939
cleaner, ring	370	cleaner, yard	399	clerk, claims (omnibus com- pany)	939
cleaner, road (blast furnace)	279	cleaner, yard	399	clerk, clearing house (bank)	939
cleaner, road (road mine)	044	cleaner and balancer (weigh- ing machine)	260	clerk, clearing house (bank)	939
cleaner, road (contractor's labourer)	581	cleaner and balancer, weigh- ing machine	260	clerk, clearing house (bank)	939
cleaner, road (metaliferous mine)	054	cleaner and helper (hand)	279	clerk, clearing house (bank)	939
cleaner, road and yard (rail- way)	709	cleaner at breeze box	049	clerk, clearing house (bank)	939
cleaner, roller (colliery)	047	cleaner chargeman	701	clerk, clock room	939
cleaner, roller (textile mill)	399	cleaner-off (bookbinder's)	549	clerk, clothing store	939
cleaner, rubber	669	cleaner of raw bones (grain milling)	448	clerk, coke (gasworks, colliery, or coke oven)	939
cleaner, sack (millage)	970	cleaner pieces	371	clerk, coke and stores	939
cleaner, sausage casings	448	cleaner shed chargeman	701	clerk, colliery weigh house	939
cleaner, sausage skin	448	cleaner-up (brass foundry)	185	clerk, common law	939
cleaner (saw)	220	cleaner-up (iron or steel foundry)	183	clerk, confidential	939
cleaner, scale	638	cleaner-up (piano)	489	clerk, contracts	939
cleaner, schyf (thrive)	279	cleaner-up (puddling furnace)	279	clerk, conveying	939
cleaner, scrap	159	cleaner-up (steel manufacture)	279	clerk, correspondence	939
cleaner (screw)	250	cleaning machine attendant...	279	clerk, costing	939
cleaner, seed	183	cleaning rod maker	279	clerk, costs (law)	939
cleaner, sheet (self-bled)	619	cleaner, bone	159	clerk, costs (not law)	939
cleaner, sheet (galvanised sheet)	250	cleaner, hose (manure)	159	clerk, courting	939
cleaner, ship's	743	cleaner (coal mine)	048	clerk, dispatch	939
cleaner, ship's (female)	743	cleaner (soap)	159	clerk, dispatch (warehouse)	940
cleaner, ship's tank	399	cleanance man	043	clerk, engraving	939
cleaner, sieve	371	cleanser (cloth rolling)	398	clerk, entering	939
cleaner (silk throwing)	371	cleanser (cotton yarn)	367	clerk, estimating	939
cleaner, slabs mill	576	cleanser (printing)	549	clerk, excess baggage	939
cleaner, slope	044	cleanser, rubbish	073	clerk, farm	939
cleaner, sponge	158	cleanser, scale (iron and steel rolling)	279	clerk, finance	939
cleaner, spring	429	cleanser (silk throwing)	371	clerk, fish salesman's	939
cleaner, stamp	279	cleanser (slate mine or quarry)	073	clerk, foreman (railway)	939
cleaner, station (railway)	709	cleanser, tyre bottom	279	clerk, freight	939
cleaner, station (tramway)	129	cleanser, warp	367	clerk, goods	939
cleaner, steam brush	588	cleanser winder	367	clerk, head	939
cleaner (steel manufacture)	279	clearing frame tenter	367	clerk, hillside dispatch	939
cleaner, steel (foundry)	183	clearing frame winder	367	clerk, inspector's	939
cleaner, step	322	clearing house clerk (bank)	939	clerk, insurance	939
cleaner, still	149	clearing house clerk (railway)	939	clerk, insurance company's	939
cleaner, stitch	423	clear scratcher	318	clerk, invoice	939
cleaner, stone (metaliferous mine)	054	clear winder	367	clerk, junior	939
cleaner (stone mine or quarry)	072	cleaver (ricket bats)	491	clerk, junior audit	939
cleaner, store (blast furnace)	279	cleaver, diamond	638	clerk, junior warehouse	939
cleaner, store (gas works)	588	cleaver, feline	473-6	clerk, kitchen (restaurant, etc.)	939
cleaner, straightener bench	429	cleaver, lath	488	clerk, kitchen (shop)	737
cleaner, straw hat	429	cleaver (leather dressing)	338	clerk, laundry	939
cleaner, straw plait	429	cleaver (precious stones)	638	clerk, law	939
cleaner, street light	688	cleaver (slat splitting)	576	clerk, lawyer's	939
cleaner, sub-station	699	cleaver, spoke	473-6	clerk, ledger	939
cleaner, syphon	459	cleaver, wood	489	clerk, ledger (bank)	939
cleaner (tailoring)	429	cleaver, stone	575	clerk, left luggage	939
cleaner, tank (floor cloth)	639	cleaver maker	180	clerk, lost property	939
cleaner, tank (sugar refining)	429	cleek forger	180	clerk, machine (colliery)	939
cleaner (textile mill)	399	cleek head maker	180	clerk, mail order	939
cleaner, tie (electric railway)	399	cleek man	043	clerk, managing	939
cleaner, tin (bakery)	449	clecher, tube and hoop (textile machinery)	279	clerk, meter	939
cleaner, tin (metaliferous mine or working)	056	clerkial labourer	942	clerk, minute	939
cleaner, tip (coal wharf)	970	clerkial robe maker	404	clerk, order	939
				clerk, parcels	939

	Code Number.		Code Number.		Code Number.
clerk, pay ...	939	clipper (iron and steel stamp- ing and drop forging) ...	279	cloth carrier (floor cloth) ...	639
clerk, piecework ...	939	clipper, knot (carpet) ...	379	cloth carrier (textile mill) ...	399
clerk, porter ...	939	clipper, knot (dyer's) ...	379	cloth cleaner ...	602
clerk, post ...	939	clipper (lace) ...	385	cloth cleaner (linoleum, oil- cloth) ...	639
clerk, progress ...	939	clipper (leather dressing) ...	338	cloth cleaner (woolen cloth, etc. finishing) ...	384
clerk, railway ...	939	clipper, maulin ...	356	cloth clipper (clipping ma- chine) ...	384
clerk, railway rates ...	939	clipper, press ...	759	cloth clipper (stentering ma- chine) ...	384
clerk, receiving ...	939	clipper, sheep ...	020	cloth collector ...	359
clerk, relay ...	755	clipper, teasel (teasin) (textile mill) ...	398	cloth cutter (bookbinding) ...	532
clerk, relief ...	939	clipper, teasel (for grower) ...	989	cloth cutter (card clothing) ...	399
clerk, rental ...	939	clipper (velour hats) ...	410	cloth cutter (electric cables) ...	384
clerk, residuals ...	939	clipper (wax cash) ...	459	cloth cutter (finishing) ...	384
clerk, scrivener's ...	939	clipper (wool finishing) ...	384	cloth cutter (linoleum) ...	639
clerk, senior audit ...	939	clipper man, machine ...	043	cloth cutter, peluham ...	403
clerk, soiling room ...	939	clipper-off ...	043	cloth cutter (typewriter ribbons) ...	558
clerk (ship) ...	737	clipper-on (coal mine) ...	043	cloth cutting machine mader ...	384
clerk, shipping ...	939	clipper-on (textile finishing) clipping press man ...	384 279	cloth designer ...	398
clerk, ship's (dock, wharf, etc.) ...	939	clip puncher and fastener ...	429	cloth doer (rubber) ...	606
clerk, ship's (on board ship) ...	737	clip tenter ...	384	cloth doubler (textile finish- ing) ...	384
clerk, shop (workshop) ...	939	clipper attendant (hotel, diner, bath, etc.) ...	929	cloth drawer (mender) ...	379
clerk, shorthand ...	939	clerk room attendant, leading ...	706	cloth drawer (textile finish- ing) ...	384
clerk, signal ...	703	clerk room clerk ...	939	cloth dresser (finishing) ...	384
clerk, solicitor's ...	939	clerk room counterpane ...	796	cloth dresser (machine) clip- ping ...	379
clerk, spirit ...	939	clerk room porter ...	428	cloth dryer (finishing) ...	384
clerk, statistical ...	939	clerk, assembler (meter) ...	389	cloth dryer (general) ...	398
clerk, stock ...	939	clock chain maker ...	324	cloth drying machinist (finish- ing) ...	384
clerk, Stock Exchange ...	939	clock cleaner ...	323	cloth drying machinist (general) ...	398
clerk, stock-taker's ...	939	clocker (bostery) ...	407	clothes cleaner ...	529
clerk, stores (gasworks) ...	939	clocker, silk ...	407	clothes cord maker ...	373
clerk, stores (warehouse) ...	939	clock fastener ...	323	clothes hose maker ...	474
clerk, tally ...	939	clock fastener ...	323	clothes line maker ...	373
clerk, telegraph ...	755	clock fastener (metal) ...	323	clothes peg maker ...	499
clerk, test (P.O.) ...	398	clock chain maker ...	324	clothes presser ...	929
clerk, tickets ...	939	clock cleaner ...	323	cloth examiner ...	379
clerk, toll ...	939	clocker (bostery) ...	407	cloth folder ...	943
clerk, travelling ...	939	clocker, silk ...	407	cloth fuller ...	384
clerk, unappointed ...	939	clock fastener ...	323	cloth guide ...	399
clerk, unauthorized ...	939	clock fastener ...	323	cloth hat machinist ...	410
clerk, underwriter's ...	939	clock jobber ...	323	cloth hooker ...	943
clerk, wages ...	939	clock jobber and winder ...	323	clothes, card ...	225
clerk, warehouse ...	939	clock key maker ...	254	clothes, flat ...	225
clerk, water ...	774	clock line maker ...	373	clothes, horse ...	428
clerk, weighbridge ...	939	clock maker ...	323	clothes, second-hand ...	770
clerk, weigh (coal wharf) ...	939	clock maker, automatic ...	323	clothes (wholesale, retail dealing) ...	770
clerk, weigh (tollary) ...	048	clock maker (electric meters) ...	309	clothes' cutter ...	403
clerk, weighing ...	939	clock maker, time recording ...	323	clothes' planner ...	428
clerk, weigh office ...	939	clock maker, turret ...	323	clothing cloth agent ...	774
clerk, works ...	939	clockmaker (wholesale, retail dealing) ...	770	clothing maker, dress's ...	608
clerk and telegraphist, censor (Post Office) ...	755	clock maker and repairer ...	323	clothing maker, horse ...	428
clerk and telegraphist, sorting (Post Office) ...	755	clock man (electric meters) ...	309	clothing porter ...	706
clerk collector ...	705	clock material maker ...	324	clothing store clerk ...	539
clerk of the course ...	604	clock movement maker ...	324	cloth inspector ...	579
clerk of the scales ...	384	clock operator (electric fur- nace) ...	171	cloth labourer ...	609
clerk of works ...	939	clock repairer ...	323	cloth lapper ...	943
clerk to magistrate's clerk ...	939	clock winder ...	989	cloth lifter ...	399
click boy ...	049	clock block maker ...	498	cloth (linen) finisher, brown ...	384
clicker, accentuation ...	342	clock clasper ...	429	cloth looker ...	379
clicker (boots and shoes) ...	413	clock dancer ...	285	cloth machinist ...	419
clicker, brace ...	342	clocker ...	415	cloth maker, bristles ...	418
clicker (crops) ...	415	clock iron bender ...	273	cloth maker, etery ...	038
clicker, press ...	413	clock iron cutter ...	273	cloth maker, glass ...	098
clicker (printing) ...	521	clock iron maker ...	254	cloth maker (rubber) ...	608
clicker (rubber) ...	608	clock iron puncher ...	279	cloth maker-up ...	943
clicker (saddlery and leather goods) ...	342	clock iron shaper ...	278	cloth man (coal mine) ...	943
clicking machinist ...	609	clock machinist ...	415	cloth man (tailoring) ...	428
clicker, church tower ...	324	clock maker ...	415	cloth man, white ...	941
clicker (steel works) ...	588	clock river ...	576	cloth measurer (making-up) clothing (textile mach- inery) ...	943 608
clinical chemometer blow ...	279	clock salesman ...	415	cloth miller ...	384
clinical thermometer divider ...	222	clock scale cutter ...	498	cloth miller ...	399
clinker crusher ...	099	clock sole maker ...	498	cloth overlocker, cotton ...	359
clinker drawer ...	099	clocks and art worker ...	298	cloth packer ...	379
clinker, water gas ...	698	close plaster ...	278	cloth passer ...	943
clinker grinder (cement) ...	099	closer (boot polish) ...	949	cloth picker ...	379
clinker maker ...	102	closer (boots) ...	414	cloth picker ...	399
clinker man ...	699	closer, button ...	689	cloth piece ...	419
clinker picker (cement) ...	699	closer, case ...	345	cloth presser (making-up) ...	943
clinker picker (soda oven) ...	699	closer, channel ...	429	cloth presser, sponge ...	399
clinker picker (gas works) ...	699	closer (clothing) ...	404	cloth room man ...	428
clinker tiler ...	102	closer (corset) ...	414	cloth sewerer (finishing) ...	384
clip chain (stenter) fitter ...	210	closer, flyer slot ...	278	cloth sewerer (wool bleaching) ...	380
clip fastener ...	429	closer, hand ...	414	cloth sewerer ...	419
clipper (cling lines) ...	273	closer (iron foundry) ...	183	cloth sewerer ...	384
clipper, cloth (clipping machine) ...	384	closer (leather bag or trunk) ...	345	cloth shrinker ...	384
clipper, cloth (stentering machine) ...	384	closer (repaire goods) ...	348	cloth sifter (typewriter rib- bons) ...	558
clipper (coal mine) ...	443	closer, lid ...	699		
clipper (coopering) ...	099	closer, repairs ...	414		
clipper (embroidery) ...	429	closer (shipbuilding, etc.) ...	273		
clipper, horse ...	725	closer (tube) ...	278		
clipper (hosiery) ...	399	closer (wire rope) ...	269		

	Code Number.		Code Number.		Code Number.
cloth sorter (grey room)	350	coal borderer	699	coal tallyman	699
cloth sorter and refiner	364	coal box maker	473	coal tar dye maker	143
cloth splitter	394	coal breaker (coal mine)	692	coal teamer	744
cloth stamper	399	coal breaker (gas works)	699	coal teamer	744
cloth stickler	348	coal breaker attendant	699	coal tipper (patent fuel)	699
cloth stretcher	354	coal breaker engine man	699	coal tipper (station)	744
cloth striker	384	coal carman	643	coal trimmer (coal mine)	692
cloth stripper	399	coal checker (electricity, gas works)	699	coal trimmer (electricity sup- ply)	699
cloth tenter	384	coal checker (railway)	706	coal trimmer (fishing boat)	736
cloth trimmer	384	coal chucker	699	coal trimmer (gas works)	699
cloth warehouseman	940	coal cleaner	649	coal trimmer (shipping service)	736
cloth warper	367	coal contractor	770	coal trimmer (clothes)	744
cloth washer, filter	449	coal conveyor attendant	699	coal truck weigher	699
cloth washer, press	449	coal conveyor man	699	coal unloader (from vessel)	744
cloth washer (textile)	330	coal crusher	699	coal unloader (metal works)	779
cloth weaver, hair	370	coal crusher driver	699	coal washer (coal mine)	649
cloth weaver (wire gauge)	398	coal cutter, breaking	642	coal washer (patent fuel)	699
cloth weigher	399	coal cutter (coal mine)	642	coal washery labourer	699
cloth wheeler	399	coal cutter attendant	642	coal washer (station)	749
cloth wheeler-out	399	coal cutter driver	642	coal weigher from stack	692
cloth winder	639	coal cutter man (coal mine)	642	coal wharfinger	732
cloth worker, flat	225	coal cutter man (mechanical)	642	coal wharf labourer	732
cloth worker (textile finishing)	384	coal cutting machine boy	642	coal wharf man	744
clot moulder	119	coal cutting machine driver	642	coal wharf manager	641
clotted cream maker	440	coal cutting machine man	642	coal wharf weigh clerk	939
clough keeper	748	coal depot agent	700	coal wheeler (chemical works)	149
clous nail maker	278	coal derrick labourer	744	coal wheeler (gas works, elec- tricity supply)	699
clown	399	coal derrick manager	731	coal wheeler (metal works)	699
club agent (benefit society, &c.)	750	coal derrick master	731	coal wheeler (patent fuel, &c.)	744
club agent, clothing	774	coal driver	643	coal whipper	744
club carriage attendant	702	coal dredger	738	coal wing man	744
club porter	917	coal elevator attendant	699	coal yard labourer	970
club saloon attendant	702	coaler (padding)	779	coarse carter	290
club stewardess (golf)	911	coaler (railway)	709	coat and skirt hand	404
clutch hand	639	coal filler (blast furnace)	275	coat and skirt maker	404
clubman	399	coal filler (concrete)	789	coat bust maker	513
coach, cricket	399	coal filler (railway)	789	coater, barytes (paper making)	688
coach, football	399	coal foreman (cement)	692	coater, boiler	688
coach, rowing	699	coal foreman (gas works)	692	coater, carbon paper	538
coach (sport)	699	coal gear man	699	coater, celluloid	688
coach body designer	632	coal getter	642	coater, dry plate	688
coach body maker	475-6	coal grinder (cement)	699	coater, emulsion	688
coach body mounter	475-6	coal grinder (coke oven)	699	coater (linoleum, oilcloth)	639
coach body painter	633	coal grinder	699	coater (metal trades)	513
coach boy	469	coal handler	776	coater, paper	688
coach builder (private car- riage, &c.)	475-6	coal header (drawer)	643	coater, paper (photographic)	688
coach builder (tramcar)	475-6	coal header (hewer)	642	coater (photographic film)	688
coach builder's labourer	499	coal heaver	970	coater (photographic paper)	688
coach builder's labourer (roll- ing stock)	639	coal hoiler	744	coater (photographic plates)	688
coach driver	718	coal hoist worker	744	coater, plate	688
coach driver, stage	718	coal inspector (coal mine)	641	coater (tinplate)	263
coach engraver	278	coal inspector (gas works, elec- tricity supply, waterworks)	692	coater, tracing paper	516
coachman and wheeler (rolling mill)	279	coal inspector (railway)	700	coater (typewriter stencil paper)	550
coachman, cold (iron and steel rolling)	279	coal labourer	709	coater (wire)	234
coachman, cold (iron and steel rolling)	279	coal labourer (coal mine)	647	coater (knitted coats)	379
coachman, cold (iron and steel rolling)	279	coal labourer (electricity supply)	699	coat finisher (tailoring)	404
coachman, cold (iron and steel rolling)	279	coal leader	719	coat fitter (knitted coats)	379
coachman, cold (iron and steel rolling)	279	coal leader (coke oven)	699	coat hand	404
coachman, cold (iron and steel rolling)	279	coal leader (ship)	744	coat hanger maker	404
coachman, cold (iron and steel rolling)	279	coal leader's assistant	699	coat machinist	404
coachman, cold (iron and steel rolling)	279	coal lumper	744	coat maker, children's	404
coachman, cold (iron and steel rolling)	279	coal man (depot)	970	coat maker (hand knitted coats)	375
coachman, cold (iron and steel rolling)	279	coal man (hewer)	699	coat maker (machine knitted coats)	374
coachman, cold (iron and steel rolling)	279	coal man (gas works)	699	coat maker (tailoring)	404
coachman, cold (iron and steel rolling)	279	coal man, gas	699	coat blue maker	152
coachman, cold (iron and steel rolling)	279	coal man (patent fuel)	699	coat blue worker	148
coachman, cold (iron and steel rolling)	279	coal man (railway)	709	coat binder picker	279
coachman, cold (iron and steel rolling)	279	coal manipulator	699	coat binder	148
coachman, cold (iron and steel rolling)	279	coal master	699	coat binder	148
coachman, cold (iron and steel rolling)	279	coal merchant	719	coat binder	148
coachman, cold (iron and steel rolling)	279	coal meter man	699	coat binder	148
coachman, cold (iron and steel rolling)	279	coal miller	699	coat binder	148
coachman, cold (iron and steel rolling)	279	coal mill foreman	699	coat binder	148
coachman, cold (iron and steel rolling)	279	coal mill (hewer)	642	coat binder	148
coachman, cold (iron and steel rolling)	279	coal miner (stone work)	647	coat binder	148
coachman, cold (iron and steel rolling)	279	coal miner's labourer (at face)	647	coat binder	148
coachman, cold (iron and steel rolling)	279	coal miners' labourer (road- way, &c.)	647	coat binder	148
coachman, cold (iron and steel rolling)	279	coal mining contractor	641	coat binder	148
coachman, cold (iron and steel rolling)	279	coal owner	641	coat binder	148
coachman, cold (iron and steel rolling)	279	coal picker (colliery)	649	coat binder	148
coachman, cold (iron and steel rolling)	279	coal picker (railway)	709	coat binder	148
coachman, cold (iron and steel rolling)	279	coal plant attendant	650	coat binder	148
coachman, cold (iron and steel rolling)	279	coal porter (coal wharf)	970	coat binder	148
coachman, cold (iron and steel rolling)	279	coal porter (flat, office, &c.)	749	coat binder	148
coachman, cold (iron and steel rolling)	279	coal porter (railway)	699	coat binder	148
coachman, cold (iron and steel rolling)	279	coal refiner	649	coat binder	148
coachman, cold (iron and steel rolling)	279	coal screener (coal wharf)	970	coat binder	148
coachman, cold (iron and steel rolling)	279	coal screener (colliery)	649	coat binder	148
coachman, cold (iron and steel rolling)	279	coal sorter	649	coat binder	148
coachman, cold (iron and steel rolling)	279	coal spinner watchman	699	coat binder	148
coachman, cold (iron and steel rolling)	279	coal spreader	699	coat binder	148
coachman, cold (iron and steel rolling)	279	coal stoker (gas works)	699	coat binder	148
coachman, cold (iron and steel rolling)	279	coal stoker (railway)	719	coat binder	148
coachman, cold (iron and steel rolling)	279	coal stevedore	732	coat binder	148

	Code Number.		Code Number.		Code Number.
collector, reed	639	colour designer	106	colour striker	152
collector, rent	769	colour dipper	396	colour washer	116
collector, sack (horse)	719	colour dryer (dye)	149	colour wheeler (leather dress- ing)	336
collector, sack (motor)	720	colour drying kiln man	116	colour wheeler (textile mill)	399
collector, scoreboard	499	colour drying man	116	colour wheels-out	399
collector, sawwood	039	colour dry sifter	116	colour worker	152
collector, seidge	039	colour duster	106	colour worker, enamel	152
collector, senior ticket	705	colour dyehouse machine man	399	colour worker (scap, xylonite)	158
collector, sheet	706	colour dyer	632	colour worker, shrew	577
collector, straw plait	770	coloured dresser	369	colour worker, book	725
collector (textile mill)	399	coloured estuoe maker	152	column man (acid)	143
collector, ticket	705	coloured warper	361	column man, acid	143
collector, toll (canal)	731	coloured winder	367	column man, sulphuric acid	143
collector, toll (railway)	705	colourer (artificial flowers)	688	comb buffer (celluloid, erinoid, do.)	619
collector, tonnage dues and rates	731	colourer (bleaching)	241	comb buffer (metal)	238
collector, train ticket	705	colourer, capsule	279	comb carder	399
collector, travelling ticket	705	colourer (carpets)	396	comb cutter	103
collector (waste)	970	colourer (dyers)	381	comb cutter	619
collector, waste (textile mill)	399	colourer (for textile printing)	381	comb cutter	619
collector guard	702	colourer (gold)	526	comb cutter	619
collector of debts	789	colourer, map	548	comb cutter	619
collector of dues (harbour or dock)	731	colourer (metal capsules)	279	comb cutter	619
collector of dues (railway)	700	colourer, photograph	548	comb cutter	619
collector of parts	279	colourer, piece	381	comb cutter	619
collector of rents	789	colourer, plan	526	comb cutter	619
collector of seamen's notes	799	colourer, print (for textile printing)	379	comb cutter	619
collector salesman	774	colourer (steel pens)	379	comb cutter	619
collector's boy	706	colourer, tin foil	399	comb cutter	619
college principal	929	colourer (wall paper printing)	536	comb cutter	619
college porter	917	colourer, etcher	526	comb cutter	619
college servant	900	colour foreman	359	comb cutter	619
collier, assistant	042	colour grinder	152	comb cutter	619
collier, butty	042	colour grinder, dry	152	comb cutter	619
collier (hearer)	042	colouring oven man	143	comb cutter	619
collier (on barge)	744	colourist (carpets)	381	comb cutter	619
collier, wood	638	colourist (dye)	381	comb cutter	619
collier contractor	042	colourist (for textile print- ing)	381	comb cutter	619
collier driftman (hearer)	042	colourist, map	526	comb cutter	619
collier driftman (not a hearer)	047	colourist, plan	526	comb cutter	619
collier tender	042	colourist, post card	546	comb cutter	619
collier tender	042	colourist (wood)	399	comb cutter	619
collier tender	042	colour kiln fireman	118	comb cutter	619
collier's assistant	042	colour liner (enamel)	241	comb cutter	619
collier's bent man	738	colour liner (paint)	593	comb cutter	619
collier's boy	042	colour maker, alumin	143	comb cutter	619
collier's helper	042	colour maker (carpets and rug)	381	comb cutter	619
collier's head boy	043	colour maker (ceramic)	158	comb cutter	619
collier's waterman	738	colour maker (deckyard)	419	comb cutter	619
collier's weigher	048	colour maker, dry	152	comb cutter	619
collier's weighman	048	colour maker (dyer's)	381	comb cutter	619
collery agent (coal mine)	040	colour maker (for textile printing)	381	comb cutter	619
collery agent (wholesale, re- tail dealing)	770	colour maker (leather cloth)	152	comb cutter	619
collery contractor	041	colour maker (paints and colours)	158	comb cutter	619
collery corve mender	652	colour maker (process-worker)	143	comb cutter	619
collery corve repairer	652	colourman, artist's	770	comb cutter	619
collery estate agent	041	colourman (colour works)	158	comb cutter	619
collery fitter	047	colourman (painting and decorating)	591	comb cutter	619
collery groom	210	colourman painter	593	comb cutter	619
collery horse trainer	047	colour matches (carpets)	396	comb cutter	619
collery labourer	047	colour matches (straw phis)	229	comb cutter	619
collery letter boy	758	colour miller	118	comb cutter	619
collery manager	040	colour millman	118	comb cutter	619
collery mechanic	245	colour mixer (carpets and rug)	381	comb cutter	619
collery oiler	047	colour mixer (dyer's)	381	comb cutter	619
collery post boy	758	colour mixer, enamel	152	comb cutter	619
collery sawyer	481	colour mixer (for textile printing)	381	comb cutter	619
collery surveyor	040	colour mixer (leather dress- ing)	335	comb cutter	619
collery tram mender	652	colour mixer (dry mixing)	158	comb cutter	619
collery trans repairer	652	colour mixer (painter's)	592	comb cutter	619
collery tub mender	652	colour mixer (point grinding)	152	comb cutter	619
collery tub repairer	652	colour mixer's assistant	381	comb cutter	619
collery under-manager	040	colour mixer's labourer (paper staining)	549	comb cutter	619
collery weigh house clerk	048	colour mixer's labourer (tex- tile mill)	399	comb cutter	619
collery wharf foreman	740	colour painter	108	comb cutter	619
collodion printer	527	colour paintess	108	comb cutter	619
collotype machine printer	529	colour printer (lithographic)	529	comb cutter	619
collotype photographer	526	colour printer, oil	529	comb cutter	619
collotype photographic opera- tor	526	colour printer (textile)	383	comb cutter	619
collotype photo maker	526	colour raw material grinder	118	comb cutter	619
collotype printer	529	colour shaver	152	comb cutter	619
collotype process operator	576	colour shop labourer	549	comb cutter	619
colour blender (acetone)	396	colour spreader's assistant	639	comb cutter	619
colour blender and dresser (leather cloth)	152	colour stone breaker	118	comb cutter	619
colour blender and dresser (linoleum)	639	colour stone crusher	118	comb cutter	619
colour blocker	537	colour stover	241	comb cutter	619
colour blower	108	colour strainer (textile print- ing)	396	comb cutter	619
colour boy	449			comb cutter	619
colour carrier	399			comb cutter	619
colour coprint	108			comb cutter	619
colour crusher	118			comb cutter	619

Code Number.	Code Number.	Code Number.
commissionaire (G.P.O.) ... 754	compressor, carbonic acid gas ... 148	conduccressa ... 737
commissionaire, sergeant ... 751	compressor (stationary engine driver) ... 950	conduit cleaner, foreman ... 716
commission merchant ... 771	compressor attendant ... 950	conduit cleaner (tramways) ... 729
commis. waiter ... 639	compressor driver ... 950	conduit layer ... 578
common finisher ... 639	compressor man (air, gas, &c.) ... 950	conduit railman ... 311
common keeper ... 939	compressor man (coke oven) ... 939	conduit walkman ... 699
common labourer, boiler ship ... 223	compressor operator ... 939	conduit warden ... 027
common law clerk ... 939	compressor ... 731	cone collector ... 4
commutator base ... 210	compressor of dyes (dock) ... 731	cone maker (wood) ... 486
commutator builder ... 318	compressor ... 436	cone maker, wood ... 486
commutator fitter ... 318	compressor, boot last ... 436	cone maker (felt hat manufac- ture) ... 227
commutator hand ... 318	compressor, heel ... 436	coner, wood (silk) ... 371
commutator maker ... 318	compressor, last ... 436	cone shaver ... 410
commutator part maker ... 210	compressor, wood heel ... 436	cone winder (silk) ... 371
commutator turner ... 200	counted stitch machinist ... 410	coney cutter ... 378
compaction maker ... 553	concentrating acid man (ex- plores) ... 142	confectioner (pastry cook) ... 433
compaction ... 900	concentrating acid man (pro- cess man) ... 143	confectioner (retail dealing) ... 770
compaction, lady's ... 900	concentrating man (acid) ... 143	confectioner (sweets) ... 435
compaction-help ... 900	concentrator, acid ... 143	confectioner's assistant (de- corative) ... 448
compaction nurse ... 912	concentrator, nitric acid ... 143	confectioner's assistant (sugar baking) ... 449
company house keeper ... 054	concentrator (process man) ... 143	confectionary decorator ... 435
company keeper ... 799	concentrator, sulphuric acid ... 143	confectionary hand ... 435
company liquidator ... 047	concentrator man (paper mill)	confectionary maker, French (sweets) ... 435
company promoter ... 799	center agent ... 981	confectionary maker (sugar) ... 435
company's man ... 047	center agent's manager ... 981	confectionary maker, sugar ... 435
compass adjuster ... 322	ceramics maker ... 648	confectionary moulder ... 435
compass adjuster, ship's ... 322	ceramics tuner ... 648	confectionary picker ... 449
compass boy ... 322	cercher (chocolate) ... 448	confectionary picker ... 449
compass maker, ship's ... 322	cercher block finisher ... 096	confectionary picker ... 449
compass maker ... 556	cercher block maker ... 096	confectionary picker ... 449
compensation balance maker ... 324	cercher block worker ... 096	confectionary picker ... 449
competition scrutineer ... 999	cercher damp course maker ... 096	confectionary picker ... 449
compiler, card (weaving) ... 398	cercher flag maker ... 096	confectionary picker ... 449
compiler, directory ... 909	cercher layer ... 579	confectionary picker ... 449
compiler of steel pattern cards ... 396	cercher machinist ... 581	confectionary picker ... 449
completion specialist ... 920	cercher mixer ... 579	confectionary picker ... 449
compo ... 495	cercher paving slab labourer ... 099	confectionary picker ... 449
compo grinder ... 273	cercher paving slab maker ... 096	confectionary picker ... 449
compo man (leather) ... 334	cercher pipe maker ... 096	confectionary picker ... 449
compo man (metal trades) ... 273	cercher post maker ... 096	confectionary picker ... 449
compo moulder ... 485	cercher roof panel maker ... 096	confectionary picker ... 449
compo press hand ... 485	cercher slab maker ... 096	confectionary picker ... 449
compo press man ... 567	cercher tube worker ... 096	confectionary picker ... 449
compo press worker ... 571	cercher (building and con- structing) ... 579	confectionary picker ... 449
composited deck layer ... 571	cercher, granolithic ... 579	confectionary picker ... 449
composition attendant ... 148	cercher's steel man ... 279	confectionary picker ... 449
composition carver ... 485	cerchered milk maker ... 448	confectionary picker ... 449
composition floor layer ... 571	cercher attendant (gas works) ... 686	confectionary picker ... 449
composition frame maker ... 485	cercher attendant (mineral oil refining) ... 143	confectionary picker ... 449
composition gilder ... 485	cercher builder (electrical) ... 310	confectionary picker ... 449
composition grinder ... 279	cercher builder, variable ... 310	confectionary picker ... 449
composition house worker ... 148	cercher (milk) ... 448	confectionary picker ... 449
composition maker (hands) ... 148	cercher (silk) ... 363	confectionary picker ... 449
composition maker (machines) ... 148	cercher feeder ... 363	confectionary picker ... 449
composition maker (matches) ... 148	cercher feeder, carding engine ... 363	confectionary picker ... 449
composition maker, non- chlorate ... 148	cercher, hand ... 363	confectionary picker ... 449
composition maker (printer's roller) ... 159	cercher maker, magnets ... 363	confectionary picker ... 449
composition mixer (hand) ... 148	cercher maker (rime) ... 103	confectionary picker ... 449
composition mixer (machine) ... 148	cercher man ... 143	confectionary picker ... 449
composition mixer, non- chlorate ... 148	cercher man (hydrochloric acid) ... 143	confectionary picker ... 449
composition mixer (steel melt- ing) ... 279	cercher minder (flax and hemp) ... 363	confectionary picker ... 449
composition moulder ... 485	cercher minder (silk) ... 363	confectionary picker ... 449
composition ornament deco- rator ... 485	cercher minder (wool) ... 363	confectionary picker ... 449
composition press man ... 485	cercher tender (silk) ... 363	confectionary picker ... 449
composition stone finisher ... 096	cercher (cloth finishing) ... 363	confectionary picker ... 449
composition stone maker ... 096	cercher, cop ... 363	confectionary picker ... 449
compositor (hand) ... 522	cercher (denther) ... 363	confectionary picker ... 449
compositor (lobbing) ... 522	cercher (textile) ... 363	confectionary picker ... 449
compositor (linotype) ... 522	cercher, varn ... 363	confectionary picker ... 449
compositor (machine) ... 522	cercher and pioose ... 363	confectionary picker ... 449
compositor (rubber stamps) ... 549	cercher, bag ... 724	confectionary picker ... 449
compositor's labourer ... 549	cercher, char-a-banc ... 724	confectionary picker ... 449
compound calks maker ... 159	cercher, dining car ... 724	confectionary picker ... 449
compounder (cables) ... 319	cercher (electric railway) ... 724	confectionary picker ... 449
compounder (drink) ... 458	cercher, electric train ... 724	confectionary picker ... 449
compounder, drug ... 148	cercher, floating bridge ... 741	confectionary picker ... 449
compounder, pintment ... 148	cercher, hauling engine ... 741	confectionary picker ... 449
compounder (pistent machines, &c.) ... 148	cercher, motor car ... 724	confectionary picker ... 449
compounder, perfums ... 148	cercher, motor (railway) ... 724	confectionary picker ... 449
compounder of wines ... 458	cercher, musical (theatre &c.) ... 886	confectionary picker ... 449
compound fitter ... 210	cercher, omnibus ... 724	confectionary picker ... 449
compound maker ... 319	cercher (Pullman car) ... 724	confectionary picker ... 449
compound mixer ... 319	cercher, rail motor ... 724	confectionary picker ... 449
compressed leather maker ... 348	cercher (railway dining car) conductor (theatre, &c.) ... 886	confectionary picker ... 449
compressor, bed ... 414	cercher, train ... 724	confectionary picker ... 449
compressor (parking) ... 414	cercher, tramcar ... 724	confectionary picker ... 449
compressor, air ... 950		
compressor (air, gas, &c.) ... 950		

Code Number.		Code Number.		Code Number.	
contractor, shale mining ...	841	cook, sauce (ship) ...	737	copperman (milk) ...	396
contractor, slag ...	279	cook (ship) ...	737	copper millman (wet) ...	149
contractor, stone ...	841	cook, soap (hotel, etc.) ...	900	copper minder (straw plait) ...	428
contractor, stone work ...	841	cook, soap (ship) ...	737	copper ore speller ...	058
contractor, timber ...	841	cook, vegetable (hotel, etc.) ...	900	copper past smith ...	227
contractor, timberman ...	841	cook, vegetable (ship) ...	737	copper packer ...	053
contractor, turf ...	039	cooker (compound cake) ...	155	copper pipe worker ...	227
contractor (wholesale dealing) ...	770	cooker (gunpowder) ...	148	copper plate printer ...	529
contractor collier ...	042	cooker, lemon ...	448	copper plate roller ...	178
contractor brewer ...	042	cooker, orange ...	448	copper refinery man ...	171
contractor on make-up system ...	041	cooker, peel ...	456	copper rivet maker ...	279
contractor's dayman ...	844	cooker lad ...	159	copper rod roller ...	178
contractor's labourer ...	847	cookers centre assistant ...	923	copper roller ...	178
contractor's man ...	847	cook-general ...	900	copper roller engraver ...	230
contract porter ...	745	cook-housekeeper ...	900	copper roller maker ...	180
contract clerk ...	839	cookhouse woman (white head) ...	149	copper rollerman ...	178
controller, aerial ropeway ...	950	cooking utensil maker ...	284	copper roller turner ...	280
controller, cab ...	726	cook inspector ...	925	copper sheet roller ...	178
controller, chief ...	780	cook's boy (hotel, etc.) ...	925	copper sheet scaler (copper rolling) ...	278
controller, hotel ...	914	cook's boy (ship) ...	737	copper sheet scaler (pickling) ...	280
controller (railway) ...	700	cook shop keeper ...	911	copper sheet worker ...	227
controller, rolling stock ...	700	cooler (candles) ...	159	copper side man ...	458
controller, train ...	700	cooler, cola ...	089	roperside man ...	159
controller attendant ...	729	cooler (cokes oven) ...	089	ropersmith ...	227
controller boy ...	954	cooler (copper rolling) ...	279	ropersmith, brewer's ...	227
controller cleaner ...	729	cooler (ferment) ...	018	ropersmith, marine ...	227
controller driver ...	954	cooler (fustian finishing) ...	449	copper spinner ...	247
controller fitter ...	318	cooler, golden syrup ...	449	copper stamp cutter ...	230
controller fixer and repairer ...	305	cooler, goldie ...	449	copper stamp designer ...	230
controller head (forewoman) ...	521	cooler (soap) ...	159	copper stock hand ...	833
controller hand (printer's) ...	530	cooler, milk ...	449	copper stone burner ...	143
controller man (electric car) ...	518	cooler, mould (steel works) ...	279	copper strip drawer ...	278
controller repairer (electric car) ...	318	cooler, pipes ...	399	copper strip worker ...	278
control man, melter ...	449	cooler attendant (milk) ...	449	copper sulphate maker ...	143
control master ...	700	cooler hand (sugar refining) ...	449	copper tape drawer ...	278
control reporter ...	709	colleman (chemicals) ...	449	copper tape worker ...	278
converter, steel ...	170	cooler man, goldie ...	449	copper tinner ...	283
converter (steel or copper) ...	170	cooler man, sugar refining ...	449	copper tube drawer ...	283
converter man, Bessemer ...	170	cooler man, vacuum ...	449	copper tube Sawyer ...	278
converter man (copper) ...	170	cooling room attendant ...	919	copper turner ...	209
converter man (copper) ...	448	cooling tower attendant ...	699	copper van driver (tramway) ...	720
converter man (steel or copper) ...	170	cooper ...	477	copper wander ...	319
converting mill worker ...	481	cooper, bend ...	477	copper wire drawer ...	268
conveyancing clerk ...	939	cooper, box ...	477	copper woman ...	918
conveyor, blade ...	279	cooper, dairy ...	477	copper washer ...	086
conveyor (boilermaker's labourer) ...	223	cooper, dock ...	477	copper washer ...	027
conveyor, calamine ...	279	cooper, dry ...	477	ropice worker ...	407
conveyor, nickel shed return ...	279	cooper, foreman ...	471	cop piler ...	943
conveyor, screw ...	099	cooper, master ...	471	copping frame minder ...	371
conveyor attendant, band ...	159	cooper (repairing) ...	477	copping frame tender ...	371
conveyor attendant, belt ...	099	cooper, ratchet ...	477	cop pointer ...	387
conveyor attendant, coal ...	939	cooper, sea ...	479	cop roller ...	387
conveyor attendant, coke ...	939	cooper, sea chest ...	479	coproline miller ...	149
conveyor attendant (gas works or electricity supply) ...	699	cooper, tight ...	477	ropes cutter ...	369
conveyor attendant, salt ...	159	cooper, wet ...	477	cop sizer ...	369
conveyor attendant (seed crushing) ...	159	cooper, white ...	477	cop skimmer (dyeing) ...	399
conveyor attendant (stationary engine) ...	950	cooper, wine ...	455	cop skimmer (rope and twine) ...	399
conveyor attendant (stone mine or quarry) ...	072	cooper's assistant ...	499	cop skimmer ...	398
conveyor attendant (wood) ...	499	cooper's machinist ...	499	cop stripper ...	399
conveyor driver ...	043	cooper's sawyer ...	481	cop tube maker ...	559
conveyor driver, electric ...	954	cop maker ...	474	cop winder (not silk) ...	367
conveyor driver (stationary engine) ...	950	cop carrier ...	399	cop winder (silk) ...	371
conveyor face man ...	043	cop collector ...	399	cop winder's overlooker ...	944
conveyor fitter ...	043	cop conditioner ...	398	cop winder ...	355
conveyor hand ...	043	cop damper ...	398	cop holder ...	548
conveyor lad ...	043	cop docter ...	399	copying machine worker (clerk) ...	939
conveyor man (cement) ...	099	cop doubler ...	366	copying machine worker (metal trade) ...	200
conveyor man, coal ...	899	cop driver ...	398	copied (art ware) ...	108
conveyor man (coal mine) ...	043	cop drier ...	381	copist (clerk) ...	359
conveyor man (cokes oven) ...	099	cop, hose ...	399	copist, clock ...	108
conveyor man (gas works or electricity supply) ...	699	cop filler (vare draining) ...	399	copist, dress ...	398
conveyor operator ...	939	cop filter (vare, etc., winding) ...	387	copist, Sawyer's ...	408
conveyor puller-up ...	900	copier (clerk) ...	939	copist (milliner's) ...	408
cook ...	900	copier, design ...	399	copist, milliner's ...	408
cook, apprentice ...	900	cop maker ...	398	copy-writer (advertising) ...	719
cook, breakfast ...	900	cop packer ...	397	cord cutter ...	396
cook, chief (ship) ...	737	copper, rail vane ...	367	cord cutter ...	396
cook, curry (ship) ...	737	copper (not silk) ...	371	cord dresser ...	468
cook, daily ...	900	copper (silk) ...	371	cordier, robe ...	370
cook, entree (ship) ...	737	copper crystallizer ...	143	cordier, gold and silver ...	549
cook, fish (hotel, etc.) ...	900	coppers beamman ...	149	cordier (printer's) ...	370
cook, fish (ship) ...	900	coppers maker ...	143	cordier, roll ...	460
cook (for baker) ...	438	copper hand turner ...	200	cordier, silver ...	370
cook, grill ...	900	copper lender ...	278	cordier (washstore) ...	419
cook, larder ...	900	copper belt and nut screw ...	200	cordier (van doubling) ...	366
cook, messroom ...	900	copper beaser ...	262	cord examiner ...	407
cook (preserved foods) ...	448	copper brazer and platerworker ...	262	cording machinist, hair ...	407
cook, roast (hotel, etc.) ...	900	copper cutter ...	429	cording machinist, pin ...	407
cook, roast (ship) ...	737	copper cleaner ...	262	cordite cutter ...	148
cook, sauce (hotel, etc.) ...	900	copper depositor ...	278	cordite maker ...	148
		ropes engraver (process engraving) ...	278	cordite paste worker ...	148
		ropes (carbon brush) ...	319		
		ropes, carbon brush ...	319		
		ropes extractor ...	143		
		ropes filer ...	283		
		ropes former ...	278		
		ropes man, shot ...	278		

	Code Number.		Code Number.		Code Number.
cord maker, clothes	373	correspondence school repre-		Cotton's patent frame hand	374
cord maker, fancy	386	sentative (for business train-		cotton spinner	385
cord maker (rope)	373	ing college)	788	cotton spool packer	380
cord maker, silk	396	correspondent, foreign	380	cotton tailor	404
cord maker, whip	373	correspondent, turf	389	cotton tappet overlooker	356
cord repairer	311	corridor maid	900	cotton tresser	388
cord spinner (dubbling)	386	corridor train collector	715	cotton warehouseman	940
cord spinner, fancy	373	corrugated packing maker	559	cotton warp dresser	369
cord spinner (rope)	373	corrugator (cardboard)	558	cotton waste sorter	964
cord spinner, sewing	371	corrugator (galvanized sheet)	279	cotton watchman	963
cord spinner, silk	371	corrugator (other pressed		cotton weigher	149
cordurey cutter	386	ware)	278	cotton winder (cables and elec-	
corduroy dresser	384	corrugator, zinc	278	trio wire)	319
cordwainer	412	corrugator lad	279	rotton winder (textile mill)	367
cordwinder	412	corrugator's helper	413	cotton yarn printer	381
corn assembler	318	corset cutter	428	couber	512
corn box maker	480	corset designer	428	couberman	512
corn boy	183	corset ironer	406	couch maker	473
corn builder	318	corset lacer	428	couch staff over man	504
corn cutting machinist	279	corset machinist	406	counter, bobbin	499
corn cutting operator	279	corset maker	406	counter (boles)	949
corn filler	180	corset pattern cutter	402	counter (colliery)—above	
corn maker, raho	318	corset sewer	406	ground	949
corn maker (hand or machine		corset stitcher	406	counter (colliery)—below	
—foundry)	180	corset stripper	406	ground	947
cornmaker, lad	279	corset maker	151	counter (cycles)	279
cornmaker, ploughshare	180	corse fastener	943	counter (laundry)	918
corn maker (rope)	373	corse greaser	947	counter (paper making)	518
corn moulder	180	corse maker	472	counter, paper (paper mill)	518
corn oven attendant	183	corse marker	947	counter, paper (printing	
corn, iron	180	corse mender, colliery	552	works)	548
corn farmer	198	corser	552	counter, piece (dyeing)	399
corn fastener	943	corse repairer	552	counter, piece (textile print-	
corn greaser	947	corse repairer, colliery	558	ing)	389
corn marker	639	cosque maker	278	counter, piecework	279
corn moulder	639	cosmetics	278	counter, post card	559
corn breaker	639	cosmetic maker	148	counter (printing works)	256
corn burner	638	cost accountant	933	counter, rivet	279
corn collar	638	costard monger	777	counter, shipbuilding	939
corn cutter	638	coster	777	counter (shale mine, quarry)	973
corn docker	638	costermonger	777	counter, shale (quay)	749
corn dresser	639	costing accountant	933	counter (stationery)	558
corn dresser	639	costing clerk	933	counter (tinplate manufac-	
corner (beer, etc. bottles)	459	costing clerk (law)	939	ture)	279
corner, crown	459	costs clerk (not law)	933	counter, wooden bobbin	479
corner (disinfectants)	149	costume cutter	402	counter, yarn (examiner)	399
corner, ink bottle	159	costume finisher	405	counter, yarn (for maker-up)	200
corner, segment	459	costume hand	405	counter clerk and telegraphist	755
corner fitter	639	costume maker (dressmaking)	405	counter girl (tapes, etc.)	949
corn grinder, lineless	639	costume maker, theatrical	405	counter hand (buffet, bar)	929
corn hat coverer	410	costurier (dressmaking)	405	counter hand (hotels, etc.)	980
corn helmet maker	428	costurier, theatrical	405	counterman (1st class)	940
corn book tier	949	costurier	405	counterman (2nd class)	942
corn machinist	639	costurier	405	counterman, cloak room	942
corn machinist (cutting)	638	cost box mender	399	counterman, dry	399
corn miller	639	cotlar	941	counterman (hoiery)	775
corn mixer	638	cot fitter	278	counterman, wet	942
corn notcher	638	cot maker	473	counterman (wool warehouse)	999
corn piercer	639	cottage labourer	925	counter moulder	414
corn rounder	638	cottage (own account)	911	counter-off (manure works)	939
corn sock maker	639	cottage (worker)	924	counter-off, ship's	949
corn sorter	638	cottier	924	counter-off, warehouse	740
corn stripper	638	cottier	924	counter-off (tinplate manu-	
corn tanner	459	cotton beller	367	facture)	279
corn wire	638	cotton ball maker-up	367	counter porter	796
corn chandler	770	cotton broker	771	counter scale maker	260
corn cutter	920	cotton cake maker (for cal-		counter scale and balance	
corralling machinist	407	ender bowls)	399	maker	260
corrally machinist	407	cotton cake maker, textile	398	counter staker	200
corroly hand	407	cotton chamber man	362	counter's paint boy	279
corroly machinist	407	cotton cloth overlooker	354	counter's paint boy, piece-	
corner cutter	556	cotton coverer (fabrics)	358	work	279
cornerer (clay iron)	278	cotton covering machine tender	358	counter woman	775
cornerer (cardboard box)	558	cotton cutter	149	count house boy	956
cornerer (tin boxes, canisters)	279	cotton driver	399	count house cat	956
corner maker	433	cotton enterer	688	count house keeper	956
cornstall	688	cotton filler	367	count house maiden	956
corn grinder	432	cotton finisher	404	count house woman	956
cornice moulding maker	486	cotton lapper	319	counting house manager	931
cornice pole maker	486	cotton mixer	362	count man, owner's	956
cornice ring maker	486	cotton oil man	358	couper, horse	770
corn house man	449	cotton oil refiner	362	coupler, carriage	704
corn labourer	498	cotton picker	367	coupler (clogs)	429
corn measure maker	745	cotton plunger	745	coupler (coal mine)	943
corn porter	745	cotton porter	149	coupler (metalliferous mine or	
corn runner	745	cotton preparer (artificial silk)	391	working)	954
corn sampler	789	cotton preparer (lace)	391	coupler (railway)	704
corn thresher	921	cotton room man	362	coupler, roller	278
corn warehouseman	940	cotton room worker	362	coupler, threaded	399
corporeal (road mixer)	941	cotton rope beller	388	coupler, tub (hoiery)	943
corporeal, engine road	941	cotton sorter	745	coupler, tub (metalliferous	
corporation labourer	970	cotton seed cleaner	158	mine or working)	954
corrector (hoiery)	373	cotton seed crusher	158	coupler, wagon	956
corrector (lace)	388	cotton seed presser	158	coupler-at-shaft	943
corrector, press	548	cotton sorter, new	964	coupler-on (road mine)	943
corrector (printing)	548	cotton sorter, old	964		
corrector of the press	548				
correspondence clerk	939				

	Code Number.		Code Number.		Code Number.
coupler-on, flat	043	coverer and liner, jewel case	688	cream moulder	435
coupling connector	251	coverer and liner, pipe case	688	crease maker	102
coupon sorter	939	coverer of coat hangers	419	creasing, paper	949
coverager	314	covering machine attendant	435	creasing (stationary scoring)	552
coverer	314	covering machine attendant	435	creasing (textile finishing)	304
covering clerk	884	covering machine attendant	435	creasing, ramp	414
covering slipper	899	chocolate cream	435	creasing and paper	929
coat plaster cutter	159	covering machine tender	435	creasing attendant	929
couzie runner	043	cotton	319	creasing nurse	929
countpiece	405	cover maker, book	532	credit draper	770
covered block	449	cover maker, dish	267	credit draper's collector	774
covered buckles maker	244	cover maker (pottery)	105	credit board maker	498
covered string maker	428	cover maker, waterproof	601	creeler (Brunelle, etc., loom)	399
covered worker	554	cover moulder	279	creeler, roving frame	399
coverer (aeroplane)	508	cover repairer	922	creeler (textile)	399
coverer, air bed	602	cowkeeper	922	creeler (woollen and worsted)	365
coverer, balata belt	602	cowman	102	creel maker	772
coverer, belt	199	cow tie maker	373	creel peg maker	499
coverer, biscuit	449	cow watcher	022	creep, slack	089
coverer, boiler	688	cowman of airships	752	creep, lead	043
coverer, boiler and steam pipe	688	crabber (fishing)	950	creep, man	089
coverer (boiler, steampipe)	688	crabber (dyeing)	090	creosote maker	142
coverer, box	532	crabber (textile finishing)	399	creosoter, timber	499
coverer, brush case	688	crab fisherman	400	creosoter (wood)	499
coverer, buckle	344	crab house worker	399	creaser	254
coverer, buff	688	cracker, bone	159	cream moulder	102
coverer, bust	610	cracker, ganister	159	cream wheeler	119
coverer, button	428	cracker (ganister, gypsum, do.)	099	creasy plant man	143
coverer, cabinet case	319	cracker, gypsum	099	creel worker	407
coverer (cables)	688	cracker (lime)	159	creener	279
coverer, camera case	559	cracker (oil)	159	creewman	749
coverer (cardboard boxes)	559	cracker (pens)	254	creewman, dock	749
coverer, case	688	cracker (rubber)	609	crib maker, cattle	498
coverer, chocolate	435	cracker, silica	099	crib maker (sheep)	474
coverer, cork bat	410	cracker, stone	581	cribnet bag maker	345
coverer (cornets)	319	cracker (stone mine or quarry)	072	cribnet ball centre maker	688
coverer, cotton (cables)	435	cracker hand	559	cribnet ball maker	688
coverer, cream	098	cracker maker	559	cribnet ball sewer	688
coverer, emery roller	554	cracker-off	136	cribnet bat bundle maker	498
coverer (fixtore boxes)	559	cracker works labourer	099	cribnet bat maker	498
coverer, flange	149	cradle filler	279	cribnet coach	399
coverer, fuse	124	cradle maker (wicker)	472	cribnet, professional	399
coverer (glass blowing)	319	cradleman	745	cribnet glove maker	688
coverer, guitar percha wire	428	cramp (noodles)	278	cribnet ground keeper	399
coverer, hair frame	641	cramp (wrought nails)	278	cribnet groundman	399
coverer, base	344	cramping-on machinist	486	cribnet leg guard maker	688
coverer, hammer	410	crane attendant	350	cribnet pad maker	688
coverer, harness furniture	410	crane boy, steam	279	cribnet sealer	688
coverer, hood	653	crane cleaner	950	cribnet stamp maker	498
coverer, jewel case	688	crane driver	950	Crighton opener feeder	362
coverer, lead (cables)	318	crane driver, electric	950	Crighton opener machine	362
coverer, leather roller	348	crane driver, hydraulic	950	feeder	362
coverer (linoleum, cloth)	539	crane driver, loco	950	Crighton opener tender	362
coverer, milliner wire	428	crane driver, steam	950	cripper (beats)	414
coverer, maul (button, do. moulds)	428	crane driver, tip	950	cripper (cloths)	414
coverer, mould (cardboard making machine)	278	crane engine boy	950	cripper, fibres	399
coverer, musical string	688	crane engine man	950	cripper (flax)	362
coverer, naval frame	688	crane footer	950	cripper, ramp	414
coverer, photo frame plinth	688	crane hoister	700	crinkled paper machine	559
coverer (piano sections)	649	crane lad	279	cripple	943
coverer, pipe	688	crane man	950	cripper and folder	384
coverer, pipe and boiler	688	crane man, centre	950	cripper make (tile making)	474
coverer, pipe case	688	crane man (coke oven)	950	cripper	375
coverer, pot	949	crane man (colliery)	950	cripper (embroidery)	407
coverer, printer's roller	688	crane man, heating pit	950	cripper worker (lace making)	975
coverer, roller (leather)	348	crane man, hot tank	950	croas (oxide of iron) polisher	398
coverer, roller (rubber tyres)	692	crane man (on ship)	736	croft box	299
coverer, roller (textile machinery)	698	crane man, pig	950	croft cleaner, bleach (cloth cleaning)	380
coverer (rubber)	698	crane man, pit	950	croft cleaner, bleach (machine cleaning)	399
coverer, rubber (surgical hand-age)	602	crane man, soaking pit	950	croft (dyeing)	399
coverer, silk	919	crane, axle	279	croft (farm)	011
coverer, silk button	428	crane signalman	909	croft (paper)	518
coverer, steampipe	688	crane shifter	909	croft lad	399
coverer, string (musical instruments)	688	crane tender	950	croft man	279
coverer, string (piano)	688	cranker	119	cropper, axle	279
coverer (sugar confectionery)	435	crank maker	119	cropper (bolts, nuts and rivets)	279
coverer, tennis ball	688	crank turner	200	cropper (rolland comb)	619
coverer, tong	688	crane finisher	384	cropper (rolland)	041
coverer, brass	688	crane boy	149	cropper (tiles)	279
coverer (umbrella, parasol)	416	crane maker	479	cropper, force	279
coverer, whip handle	348	crane maker's machinist	498	cropper (general engineering)	013
coverer, wing (aeroplane, fixing)	658	crasman (sand, gravel)	074	cropper (iron and steel rolling)	279
coverer, wing (aeroplane, stitching)	419	crasman (stone mine or quarry)	072	cropper, mudin	384
coverer, wire (cables)	319	cravat maker	419	cropper, nap	384
coverer, wire (guitar percha)	319	Crawler separator	532	cropper, piece	384
coverer, wire (India rubber)	319	crasman make	532	cropper (precious metals)	287
coverer (wooden fixtore boxes)	588	cream coverer	435	cropper (textile finishing)	384
coverer, wood heel	414	cream, biscuit	449	cropper and shearer, mill	279
coverer and clearer, roller	348	creamery hand	449	cropper boy	530
coverer and liner, case	688	cream band	435	cropper hand	530
		cream maker, clothed	448	cropper lad	530
		cream maker, scalded	448	cropper man	384
				cropper worker	384
				cropping machine attendant	384

	Code Number.		Code Number.		Code Number.
crop wheeler	279	crusher feeder (patent fuel, do.)	099	curer (rubber)	603
cross borer and cutter	486	crusher feeder (stone mine or quarry)	072	curer (skins)	338
cross cut sawyer	481	crusher hand (feeder)	362	curier (boats)	414
cross cut sawyer, swing	431	crusher hand (feeder)	362	curier, collar	918
crosser (furnia)	396	crusher man (concrete, do.)	099	curier, foster	632
crosser (handkerchief)	419	crusher man (chemical works)	149	curier, hair (finishing)	338
cross frame, chair	473	crusher man (coal mine)	049	curier, hair (spinning)	245
cross grinder (general)	237	crusher man (copper smelting)	279	curier (hats)	409
cross grinder (steel pens)	237	crusher man (rock)	056	curier, horse hair (finishing)	398
crossing keeper (railway)	704	crusher man (stone mine or quarry)	072	curier, horse hair (spinning)	365
crossing policeman	704	crushing machined man	362	curier, mohair yarn	398
crossing sweeper	970	crutcher	155	curier, ostrich feather	632
crossing watchman	704	crutcher	155	curier, soft	398
cross-measure drifter	047	crutcher	155	curier, tyre	608
cross picor	385	crutcher	155	curling stone maker	375
cross roller	286	crutcher	155	current cleaner	449
cross rolls man	278	crutcher	155	currier	334
crusher makee	190	crutcher	155	currier, coach harness	334
crusher (bricks)	119	crutcher	155	currier, drum	334
crusher, rich	024	crutcher	155	currier, saddle and harness	334
crush cork assembler	279	crutcher	155	currier, table	334
crush corker	459	crutcher	155	currier's beam maker	486
crush cutter	409	crutcher	155	currier's labourer	339
crush glass maker	124	crutcher	155	currier's table hand	334
crush labourer	027	crutcher	155	currier's table man	334
crush maker	409	crutcher	155	curry comb maker	254
crush sewer	410	crutcher	155	curry comb porter	279
crush picker	047	crutcher	155	curry comb riveter	254
crush searer	024	crutcher	155	curry comb varnisher	279
crush tenter	024	crutcher	155	curry cook (ship)	737
crusher	458	crutcher	155	curtain folder	385
crucible maker	103	crutcher	155	curtain frame maker	473
crucible maker, glass	103	crutcher	155	curtain frame	918
crucible maker, plumbago	103	crutcher	155	curtain knitter	376
crucible man (brass, bronze foundry)	184	crutcher	155	curtain lace maker	376
crucible man, bronze	171	crutcher	155	curtain reader	398
crucible man (hot brass foundry)	171	crutcher	155	curtain ring maker	459
crucible man (steel furnace)	162	crutcher	155	curtain stretcher	918
crucible pot maker	103	crutcher	155	curve cutter	322
crucible steel maker	103	crutcher	155	curver (corrugated sheets)	279
crucible worker	103	crutcher	155	curver, umbrella rib	278
crude barrel maker	142	crutcher	155	curver's assistant	279
crude benzol man	142	crutcher	155	cushion case maker	419
crude glycerine efflu man	149	crutcher	155	cushion filler	504
crude glycerine maker	143	crutcher	155	cushion maker, air	608
crude glycerine recovery	143	crutcher	155	cushion maker (billiard tables)	608
crude glycerine salt washer	149	crutcher	155	cushion maker, billiard table	608
cruder	279	crutcher	155	cushion maker (flaming)	504
cruet band	287	crutcher	155	cushion stuffer (billiard table)	608
cruet stand maker	287	crutcher	155	cushion type fitter	659
cruet top maker	287	crutcher	155	cushab	785
crumplet baker	433	crutcher	155	cusard powder maker	448
crumplet maker	433	crutcher	155	custodian (castle)	921
crusher, asbestos	362	crutcher	155	custodian, safe deposit	940
crusher, ballast	362	crutcher	155	cut booker	399
crusher, blende	278	crutcher	155	cut glass worker	228
crusher, bone (manure)	149	crutcher	155	cutler	228
crusher, bone (tallow factory)	159	crutcher	155	cutler, bayonet	228
crusher, calamine	279	crutcher	155	cutler, fork	228
crusher, clinbor	099	crutcher	155	cutler, itinerant	287
crusher, coal	363	crutcher	155	cutler, pen knife	228
crusher, cocoa	449	crutcher	155	cutler, pocket knife	228
crusher, cocoa bean	449	crutcher	155	cutler, silver	287
crusher, colour	118	crutcher	155	cutler, spring knife	228
crusher (copper smelting)	279	crutcher	155	cutler, steel fork	228
crusher, cotton seed	159	crutcher	155	cutler, surgical	228
crusher, emery	099	crutcher	155	cutler, sword	228
crusher, feed	414	crutcher	155	cutler, travelling	237
crusher, husk (cocoa-nut fibre)	396	crutcher	155	cutler, buffer	238
crusher, ironed	459	crutcher	155	cutler, engraver	183
crusher, malt	458	crutcher	155	cutler, etcher	278
crusher (manure)	149	crutcher	155	cutler, forger	199
crusher (metalliferous mine or working)	066	crutcher	155	cutler, grinder	237
crusher (oil seed)	159	crutcher	155	cutler, marker	279
crusher (patent fuel, do.)	099	crutcher	155	cutler, polisher	238
crusher, roller	399	crutcher	155	cutler, whether	237
crusher, rubber	600	crutcher	155	cut locker	379
crusher (wood crushing)	159	crutcher	155	cut nail and sprig maker	254
crusher, slag works	099	crutcher	155	cut picker	379
crusher (stone mine or quarry)	072	crutcher	155	cutter, alphabet	358
crusher, stone (road making)	581	crutcher	155	cutter, anodizing	429
crusher, stone (stone mine or quarry)	072	crutcher	155	cutter, applique	429
crusher attendant (chalk, clay)	074	crutcher	155	cutter, artificial flower	403
crusher attendant, jade	362	crutcher	155	cutter, artificial flower (paper)	552
crusher attendant (metalliferous mine or working)	058	crutcher	155	cutter, asbestos sheet	098
crusher attendant, ore	156	crutcher	155	cutter, bacon	448
crusher attendant, wood pulp	518	crutcher	155	cutter, bag	342
crusher boy	940	crutcher	155	cutter, band	609
crusher driver	072	crutcher	155	cutter, band knife	460
crusher engine man	950	crutcher	155	cutter, bar	279
crusher feeder (chalk, clay)	074	crutcher	155	cutter, bar and pen	254
crusher feeder (contractor's)	581	crutcher	155	cutter, bar and pin	279
		crutcher	155	cutter, bark	499
		crutcher	155	cutter (barites, rock salt, do.)	076

	Code Number.		Code Number.		Code Number.
cutler, bass	639	cutler, comb twin	619	cutler, hay	024
cutler, beaverbone	398	cutler, cone	338	cutler, hay (not agricultural)	449
cutler, beetle	486	cutler, copper stamp	236	cutler, head (coopering)	481
cutler, belt	342	cutler, cope	027	cutler, head	039
cutler, bevel gear	362	cutler, coral	538	cutler, head	024
cutler, billet	279	cutler, cord	382	cutler, head	423
cutler, blank	286	cutler, cordite	149	cutler, hamp	362
cutler, bleacher's stamp	230	cutler, corduroy	386	cutler, bale	231
cutler (bleaching)	394	cutler, cork	638	cutler (bottle-ware)	279
cutler, block (linoleum)	257	cutler, corn	920	cutler, bone	370
cutler, block (metal)	557	cutler, corner	558	cutler, boot	409
cutler, block (rubber)	629	cutler, corner	403	cutler, bowl	018
cutler, block (stone mine quarry)	072	cutler, corset pattern	422	cutler, bowl	613
cutler, block (stone quarry)	072	cutler, cotton	632	cutler, bowl	613
cutler, block (stone quarry)	072	cutler, court plaster	159	cutler, bowl	613
cutler, block (wall papers)	485	cutler, crown	469	cutler, horse-nail	190
cutler, block and print	257	cutler, curve	322	cutler, hose (gas mania)	403
cutler, block and roller	257	cutler, design	257	cutler, hose (rubber)	809
cutler, bloom	279	cutler, diamond	830	cutler, history	402
cutler, bone	618	cutler, diamond	830	cutler, index (printing, book-binding)	548
cutler, bone	618	cutler, disc	230	cutler, index (stationery)	558
cutler (bone brush making)	618	cutler, disc	552	cutler, india rubber	079
cutler, bone disc	618	cutler, disc	126	cutler, ingot	278
cutler, bone haft	613	cutler, dyewood	149	cutler, insula	413
cutler, bone handle	613	cutler, ebony	431	cutler, insulation	609
cutler, bone tip	613	cutler, edge	232	cutler, intaglio	128
cutler, bookbinder's tool	230	cutler, envelope	558	cutler, intaglio	128
cutler, book rivet	413	cutler, escape wheel	324	cutler, ivory	613
cutler (books)	254	cutler, esparto grass	519	cutler, ivory handle	613
cutler (books and shoes)	602	cutler, fat	159	cutler, ivory nut	613
cutler, bottom (coal heater)	049	cutler, felt	479-6	cutler, ivory piano key	613
cutler, bottom (colliery road making)	044	cutler, felt (packing)	639	cutler, ivory tip	613
cutler, bowl	461	cutler, felt (saddle mail)	386	cutler, jacquard card	386
cutler, box	342	cutler, felt bat	409	cutler, paper	613
cutler, boxing glove	528	cutler, fern	039	cutler, jelly	638
cutler, box-maker's (sawyer)	461	cutler, file (hand)	232	cutler, leather	443
cutler, box-maker's (wood-working machinist)	486	cutler, file (machine)	232	cutler, late (grading)	396
cutler, brace	342	cutler, film	689	cutler, late (manure)	399
cutler, brand	230	cutler, firewood	499	cutler, kelp	029
cutler, brass letter	224	cutler, fittings	413	cutler, key	243
cutler, brass rule	279	cutler, flagstone	072	cutler, key (piano)	481
cutler, brass meshpiece	503	cutler, glass	458	cutler, key	402
cutler, brick	565	cutler (flint glass)	403	cutler, label (printer's)	548
cutler (bricks)	102	cutler, flower	403	cutler, label (stationery)	558
cutler, bridle	342	cutler, flower (paper)	352	cutler, lace (finishing)	345
cutler, brilliant	126	cutler, flywheel	399	cutler, lath	254
cutler, trim	409	cutler, football	342	cutler, leather band or belt	342
cutler, buck horn	618	cutler, forget	429	cutler (leather goods)	342
cutler, buffalo horn	618	cutler, fourchette	429	cutler, luggage	342
cutler, buffalo horn handle	613	cutler, frost	481	cutler, machine	449
cutler, bulb	473	cutler (fur)	403	cutler, lens	138
cutler, barnmaking stone	575	cutler, fur (glove making)	411	cutler, letter (architectural, sculptor's)	574
cutler, bottom	689	cutler, fur (hats)	409	cutler, letter (die making)	236
cutler, button hole	429	cutler, fur glove	411	cutler, letter (glass)	138
cutler, carburetor	638	cutler, fur lining	411	cutler, letter (wood)	405
cutler, calico	408	cutler, fur	039	cutler, lift	413
cutler (cane)	633	cutler, fusina	398	cutler, lines	259
cutler, canoe shell	633	cutler, fuse	324	cutler, lines button	267
cutler, candied peel	449	cutler, fuse chain	324	cutler, lingerie	403
cutler (candle)	159	cutler, garden	047	cutler, lining (boots, shoes)	413
cutler, canvas bag	403	cutler, garment pattern	042	cutler, lining (glove)	429
cutler, cap	403	cutler, gas tube	279	cutler, lining (not boots or gloves)	403
cutler, caramel	449	cutler, gear	200	cutler, link	279
cutler, carbuncle	638	cutler, gelatine	159	cutler, liquorine cake	435
cutler (card and pasteboard)	519	cutler (gem)	630	cutler, liquorine paste	435
cutler, card (cardboard)	519	cutler, gem	630	cutler, logwood	149
cutler, card clothing rubber	608	cutler, glass (engraving)	126	cutler, loam	435
cutler, card (jacquard)	396	cutler, glass (sheet or plate)	138	cutler, machine (book-binding)	582
cutler, card (stationery)	558	cutler, glass brilliant	126	cutler (machine — clothing trades)	403
cutler, cat's eye	638	cutler, glass drop	126	cutler (machine) (clothing trades)	403
cutler (celluloid collars, etc.)	318	cutler, glass letter	138	cutler, machine (coal mine)	042
cutler, centre (pens)	449	cutler, glass lustre	126	cutler, machine (paper)	548
cutler, chain	398	cutler, glove	411	cutler, machine (rifle, etc.)	398
cutler, circle	254	cutler (glove)	411	cutler, machine (stationery)	558
cutler, circular	398	cutler, glue	159	cutler, machine knife	403
cutler (clay, marl)	074	cutler, gold and silver	236	cutler, machine	838
cutler, clag iron	254	cutler, gold and/or silver leaf	236	cutler, machine	636
cutler, elag sole	498	cutler, gravestone	574	cutler, machine	280
cutler (cloth)	394	cutler, grey	044	cutler, machine	402
cutler, cloth (bookbinding)	552	cutler, guillotine (paper making)	518	cutler, machine	230
cutler, cloth (card clothing)	629	cutler, guillotine (printing works)	558	cutler, machine	473
cutler, cloth (clothing trades)	639	cutler, guillotine (stationery)	558	cutler, machine	582
cutler, cloth (textile finishing)	394	cutler, guillotine (wood, veneer)	486	cutler, machine	402
cutler, cloth (typewriter ribbon)	556	cutler, haft	813	cutler, machine	148
cutler, clothier's	402	cutler, ham and beef	929	cutler, machine	279
cutler, coal	642	cutler (hand-clothing trades)	402	cutler, machine	280
cutler (coal mine)	642	cutler, hand (clothing trades)	402	cutler, machine	280
cutler, cog	047	cutler, hand (fusina, corduroy, etc.)	398	cutler, machine	280
cutler, cold bar	279	cutler, handle	613	cutler, machine	280
cutler, collar (clothing trades)	403	cutler, barrow	342	cutler, machine	280
cutler, collar (rubber)	808	cutler (hat)	409	cutler, machine	280
cutler, comb	619	cutler, hat leather	403	cutler, machine	280
cutler, comb circle	619				

	Code Number.		Code Number.		Code Number.
cutler, molokini ...	386	cutler, roller ...	257	cutler, tesserae ...	116
cutler, mosaic (pottery) ...	118	cutler, rotary ...	338	cutler, test ...	279
cutler, mosaic (stone or glass) ...	3/1	cutler, rough stuff ...	413	cutler, thickens ...	398
cutler, mosaic ...	339	cutler, round knife ...	342	cutler, thumb ...	429
cutler, mould ...	240	cutler, rubber ...	609	cutler, tick ...	403
cutler, mount (for photo- graphs, drawings, etc.) ...	556	cutler, rubber (textile ma- chinery) ...	609	cutler, tie ...	463
cutler, mosaic (quartzite) ...	463	cutler, rubber block ...	609	cutler, timber ...	463
cutler, mosaic (quartzite) ...	463	cutler, ruby ...	609	cutler, tile foil ...	479
cutler, mosaic (quartzite) ...	463	cutler, rule ...	258	cutler, tip ...	613
cutler, nail (machine) ...	278	cutler, rule ...	258	cutler, tip and lining ...	403
cutler, nail (stamped) ...	254	cutler, sack ...	403	cutler, tobaccon ...	468
cutler, nail blade ...	254	cutler, sacking ...	234	cutler, topos ...	638
cutler, Netherwood ...	298	cutler, saddle ...	342	cutler, tortoiseshell ...	618
cutler, norm ...	279	cutler, sample ...	398	cutler, tread ...	403
cutler, note-paper ...	558	cutler, sapphire ...	613	cutler, trimming ...	463
cutler, ought ...	435	cutler, scale ...	613	cutler, tube (cardboard) ...	575
cutler, out ...	190	cutler, scaleboard ...	499	cutler, tube (cycle) ...	279
cutler, oilstone ...	575	cutler, scrap ...	279	cutler, tube (cardboard) ...	550
cutler, onyx ...	538	cutler, scrap metal ...	279	cutler, tube (cycle) ...	279
cutler, opal ...	538	cutler, screw ...	639	cutler, tube (cardboard) ...	550
cutler, optical glass ...	138	cutler, seaweed ...	639	cutler, tube (cardboard) ...	550
cutler, orange ...	449	cutler, seidge ...	639	cutler, tube (cardboard) ...	550
cutler, orange, lemon ...	449	cutler, serpentine ...	638	cutler, tube (cardboard) ...	550
cutler, oriental stone ...	638	cutler, set ...	575	cutler, tube (cardboard) ...	550
cutler, panel (sheet metal) ...	254	cutler, shape ...	403	cutler, tube (cardboard) ...	550
cutler, panel (wood) ...	481	cutler, shear (clothing) ...	403	cutler, tube (cardboard) ...	550
cutler, paper (cable making, paper tubes) ...	559	cutler, shear (shoemaking) ...	403	cutler, tube (cardboard) ...	550
cutler (paper collar, cuffs and irons) ...	558	cutler, strawboard ...	403	cutler, tube (cardboard) ...	550
cutler (paper designs) ...	558	cutler, shears ...	558	cutler, tube (cardboard) ...	550
cutler (paper flowers) ...	558	cutler, sheet glass ...	138	cutler, tube (cardboard) ...	550
cutler, paper (printing works) ...	540	cutler, sheet metal ...	264	cutler, tube (cardboard) ...	550
cutler, paper (stationery) ...	558	cutler, shell (metal) ...	200	cutler, tube (cardboard) ...	550
cutler, paper (transfers) ...	119	cutler, shell (tortoiseshell, pearl) ...	613	cutler, tube (cardboard) ...	550
cutler, paper tube ...	559	cutler, shell handle ...	613	cutler, tube (cardboard) ...	550
cutler, paragon frame ...	278	cutler, shell tip ...	613	cutler, tube (cardboard) ...	550
cutler, parquet block ...	481	cutler, shapbanding—gasker ...	278	cutler, tube (cardboard) ...	550
cutler, parquet flooring ...	481	cutler (shapbanding—driller) ...	261	cutler, tube (cardboard) ...	550
cutler, parquetry ...	473	cutler, shirt ...	403	cutler, tube (cardboard) ...	550
cutler, pattern (boot, shoe) ...	413	cutler, shoe bell ...	254	cutler, tube (cardboard) ...	550
cutler, pattern (clothing) ...	402	cutler, shoe tip ...	254	cutler, tube (cardboard) ...	550
cutler, pattern (jacquard card) ...	396	cutler, shuttle block ...	486	cutler, tube (cardboard) ...	550
cutler, pattern (textile) ...	398	cutler, shoe (elg shoe) ...	486	cutler, tube (cardboard) ...	550
cutler, paving ...	575	cutler, shoe (staple) ...	479	cutler, tube (cardboard) ...	550
cutler, pearl ...	618	cutler, shoe valve ...	390	cutler, tube (cardboard) ...	550
cutler, pearl handle ...	613	cutler, silver lead ...	280	cutler, tube (cardboard) ...	550
cutler, pearl tip ...	613	cutler, skin ...	411	cutler, tube (cardboard) ...	550
cutler, peat ...	639	cutler, skin rug ...	342	cutler, tube (cardboard) ...	550
cutler, pebble ...	638	cutler, slab ...	278	cutler, tube (cardboard) ...	550
cutler, peel ...	449	cutler, slate ...	376	cutler, tube (cardboard) ...	550
cutler (perambulators) ...	658	cutler, slate home ...	376	cutler, tube (cardboard) ...	550
cutler, Pickering ...	403	cutler, slipper ...	403	cutler, tube (cardboard) ...	550
cutler, picking lead ...	342	cutler, smock ...	159	cutler, tube (cardboard) ...	550
cutler, picture mount ...	358	cutler, soap ...	159	cutler, tube (cardboard) ...	550
cutler, piece ...	384	cutler, sock ...	689	cutler, tube (cardboard) ...	550
cutler, pile ...	396	cutler (soft toys) ...	403	cutler, tube (cardboard) ...	550
cutler, plimsone ...	403	cutler, sole (boot, shoe) ...	403	cutler, tube (cardboard) ...	550
cutler, pin ...	279	cutler, sole (clog) ...	418	cutler, tube (cardboard) ...	550
cutler, pipe ...	398	cutler, spar and spur spar ...	538	cutler, tube (cardboard) ...	550
cutler, planing straw ...	429	cutler, sparrow bill ...	254	cutler, tube (cardboard) ...	550
cutler, plate (glass) ...	138	cutler, special ...	403	cutler, tube (cardboard) ...	550
cutler, plate glass ...	138	cutler, spiral ...	200	cutler, tube (cardboard) ...	550
cutler (plate or sheet glass) ...	138	cutler, split ...	486	cutler, tube (cardboard) ...	550
cutler, plate (textile printing) ...	257	cutler, split shot ...	279	cutler, tube (cardboard) ...	550
cutler, playing card ...	546	cutler, spoke ...	475-6	cutler, tube (cardboard) ...	550
cutler, pluck ...	410	cutler, sponge ...	188	cutler, tube (cardboard) ...	550
cutler (pneumatic tubes) ...	609	cutler, stag handle ...	613	cutler, tube (cardboard) ...	550
cutler, polishing cloth ...	403	cutler, stag horn ...	618	cutler, tube (cardboard) ...	550
cutler, potato ...	449	cutler, stag tip ...	613	cutler, tube (cardboard) ...	550
cutler, powder puff ...	342	cutler, stamp ...	298	cutler, tube (cardboard) ...	550
cutler, precious stone ...	638	cutler, stamp mark ...	298	cutler, tube (cardboard) ...	550
cutler (press) ...	254	cutler (stationery) ...	508	cutler, tube (cardboard) ...	550
cutler, press ...	403	cutler, steel letter ...	200	cutler, tube (cardboard) ...	550
cutler, print ...	257	cutler, steel sheet ...	279	cutler, tube (cardboard) ...	550
cutler, print and block ...	257	cutler, steel stamp ...	230	cutler, tube (cardboard) ...	550
cutler, printer's ...	546	cutler, stencil ...	302	cutler, tube (cardboard) ...	550
cutler, printing ...	444	cutler, stencil plate ...	278	cutler, tube (cardboard) ...	550
cutler, puff ...	413	cutler (stock making) ...	426	cutler, tube (cardboard) ...	550
cutler, pulp ...	149	cutler, stuffing ...	413	cutler, tube (cardboard) ...	550
cutler, punch ...	230	cutler, stock ...	403	cutler, tube (cardboard) ...	550
cutler, quill ...	618	cutler (stone mine or quarry) ...	472	cutler, tube (cardboard) ...	550
cutler, quill pen ...	638	cutler, stone (colliery) ...	407	cutler, tube (cardboard) ...	550
cutler, rabbit skin ...	338	cutler, stone (contractor's) ...	575	cutler, tube (cardboard) ...	550
cutler, rag (paper making) ...	519	cutler, stone (getting slate) ...	072	cutler, tube (cardboard) ...	550
cutler, rag (textile mill) ...	399	cutler, stone (dressing) ...	575	cutler, tube (cardboard) ...	550
cutler, rail (cold) ...	279	cutler, straight knife ...	342	cutler, tube (cardboard) ...	550
cutler, rail (hot rolls) ...	278	cutler, straw ...	024	cutler, tube (cardboard) ...	550
cutler, rasp ...	232	cutler, sugar ...	449	cutler, tube (cardboard) ...	550
cutler, reed ...	039	cutler, sawy knife ...	618	cutler, tube (cardboard) ...	550
cutler, rib ...	423	cutler (sweat) ...	448	cutler, tube (cardboard) ...	550
cutler, ribbon (textile) ...	399	cutler, sweat ...	448	cutler, tube (cardboard) ...	550
cutler, ribbon (typewriter ribbons) ...	558	cutler, tailor's ...	402	cutler, tube (cardboard) ...	550
cutler, rib file ...	232	cutler, tailor ...	159	cutler, tube (cardboard) ...	550
cutler, river wood ...	039	cutler (tanning) ...	338	cutler, tube (cardboard) ...	550
cutler, rivet ...	279	cutler, tea lead ...	279	cutler, tube (cardboard) ...	550
cutler, rock ...	072	cutler, tea's ...	069	cutler, tube (cardboard) ...	550
		cutler, telegraph paper ...	559	cutler, tube (cardboard) ...	550

	Code Number.		Code Number.		Code Number.
cutler-off (tubes)	279	cycle driller	308	damper, yarn	395
cutler-out (artificial flowers)...	463	cycle grinder	241	damper boy	341
cutler-out, artificial flower (paper)	552	cycle engineer	229	damper-downs	429
cutler-out, blacking	159	cycle engineer, motor	248	damper fine settler	318
cutler-out (bookbinding)	532	cycle errand boy	758	damper mender	642
cutler-out (clothing)	403	cycle humbler	229	damper man (cloth finishing)	384
cutler-out (cutlery)	264	cycle hauling assembler	228	damperman (paper making)	518
cutler-out, elastic	609	cycle lock builder	229	damping boy	549
cutler-out, edge tool	279	cycle frame builder	229	damping filter	374
cutler-out, knifed	429	cycle lamp	279	damping machine man	384
cutler-out, flower (paper)	352	cycle lub maker	304	damping machine, mender	885
cutler-out, flyer	200	cycle lamp	241	dancer	885
cutler-out (furniture clothing)	403	cycle machinist	200	dancer, ballet	885
cutler-out, glue	159	cycle machine	229	dancer, clog	885
cutler-out, hard rubber	609	cycle painter	230	dancer, eccentric	885
cutler-out, hose	270	cycle roller	229	dancer, toe	885
cutler-out, joint	270	cycle repairer	229	dancing partner (professional)	299
cutler-out (lace finishing)	385	cycle riveter	255	dandy mender	363
cutler-out, machine	532	cycle saddle repairer	688	dandy roll mender	278
cutler-out, machine knife	278	cyclesmith	180	dandy rover	263
cutler-out (paper flowers)	552	cycle transfer printer	529	dandy tender	363
cutler-out (precious metals)	287	cycle tube drawer	286	dancer	642
cutler-out (press stamping)	254	cycle tyre hter	659	dancemans	835
cutler-out (saddlery, leather, do., goods)	342	cycle tire moulder	652	dancer	355
cutler-out (sawyer)	481	cycle wheel builder	273	dancman	498
cutler-out, scythe	279	cycle wheel truer	273	dark slide maker	417
cutler-out, section (machine knife—pressworker)	254	cycle worker	279	darner, bag	419
cutler-out, section (machine knife—sawyer)	278	cyclist guide	729	darner (not in textile mill)	419
cutler-out (sheet metal)	284	cyclist patrol	729	darner (sock)	417
cutler-out, speed and shorel	279	cyclist scout	729	darner (textile mill)	379
cutler-out (spade and shorel)	190	cyclometer maker	322	darricker	624
cutler-out (stationary)	558	cyclone extractor	414	darricker	624
cutler-out, tea pot	254	Cyclops machine operator	414	dasher, broom	639
cutler-out (wooden boxes)	410	cylinder boiler	200	dasher, brush (hitch)	490
cutler-out (work basket lining)	688	cylinder boy	639	dash wheel man	380
cutler-out's assistant	255	cylinder carrier	139	dasher (coke oven)	889
cutler, sampler	255	cylinder drying machine	393	dasher (colliery)	284
cutler-up, bicuit	449	cylinder end mender	254	dasher (coke oven)	889
cutler-up, boiler	279	cylinder, furnace	918	dasher (colliery labourer)	647
cutler-up (boiler making)	279	cylinders (laundry)	384	dasher (colliery lead making, do., goods)	844
cutler-up (electric cable)	319	cylinder grinder	149	dasher (farm worker)	624
cutler-up (film)	279	cylinder house man	140	dasher (metalliferous mine or working)	654
cutler-up (sour confectionery)	139	cylinder inspector	398	datal man (coke oven)	689
cutler-up (sugar)	539	cylinder machine mender	318	datal man (metalliferous mine or working)	654
cutler-up (sugar hammer)	649	cylinder man, drying	581	datal man (on farm)	124
cutler-up (saddlery, leather, do., goods)	342	cylinder man (paper making)	318	datal mender (coal mine)	889
cutler-up (stationary)	538	cylinder mender (textile mill)	124	datal worker (coke oven)	647
cutler-up (stone mine or quarry)	672	cylinder splitter	237	daster (coal mine)	844
cutting machine attendant (general engineering)	279	cylindrical grinder	264	daster (metalliferous mine or working)	654
cutting machine attendant, pin	279	cymbal maker	304	dastler	647
cutting machine hand (paper making)	518			dastler	647
cutting machine hand (paper making—labourer)	519			dastler boy	647
cutting machine hand, rotary	279			dastler (coke oven)	279
cutting machine hand (sugar confectionery)	435			dastler, hot metal ladle	279
cutting machine man, coal	642			dastler, ladle	689
cutting machine man (paper making)	518			dastler grinder	689
cutting machine man (paper making—labourer)	519			dastler mixer (patents)	152
cutting machine worker	279			day boy (domestic)	925
cutting machinist, core	279			day boy (on farm)	641
cutting machinist, gear	200			day deputy	641
cutting machinist, mangle	200			day foreman	641
cutting machines (raser cases)	559			day gardener	013
cutting machinist (rubber tyre)	609			day girl (domestic)	900

	Code Number.		Code Number.		Code Number.
descon plant men	143	deliverer (grey room)	399	designer (boots)	413
descon process man	143	deliverer, milk	776	designer, card	386
destring man	042	deliverer, parcel	756	designer (carpet)	391
diesel lock maker	042	deliverer, woad	748	designer, carriage body	392
diesel lock man	042	deliverer, and clockwork	749	designer, chief	393
diesel instrument maker	683	delivery boy	758	designer, cloth	395
dial ohmset meter	473	delivery man (horse driver)	719	designer (clothing, &c.)	426
dial carrier	745	delivery men (roundman)	776	designer, coach body	932
dealer, ale	914	delivery porter	759	designer, colour	108
dealer, antique	770	delivery porter, parcel	706	designer, copper stamp	236
dealer, cattle	770	delivery room press bundler	943	designer, cornet	428
dealer, china and glass	770	delivery room splitter	354	designer, corselet	398
dealer, cycle	770	delivery van driver	072	designer, dress	429
dealer, fine art	770	delph labourer	072	designer (engineering)	399
dealer, firewood (street)	911	delver (barries mine)	076	designer, envelope	430
dealer, fish and chip	889	delver, bottom	072	designer (floorcloth)	630
dealer, foot set	889	delver, gaunter	076	designer (flower confectionary)	433
dealer, horse	770	delver (metalliferous mine or working)	056	designer, gem	296
dealer, marine store	770	delver (stone mine or quarry)	072	designer, jewellery	286
dealer, money	799	delver, top	072	designer, lace	932
dealer, retail	770	delver's labourer	072	designer (lithographer's)	321
dealer, scientific instrument	770	demonstrator, motor	729	designer, lithographic	529
dealer, share	792	demonstrator (shop)	725	designer, motor body	932
dealer, stamp	770	demmorage inspector	700	designer, paper hangings	548
dealer, tailor's trimmings	770	denier	145	designer (paper staining)	398
dealer, turf	770	de-acidifying acid man	142	designer, pattern	398
dealer, warlike	770	de-aerator	142	designer (pottery)	108
dealer, wholesale	770	den man	142	designer, printer's	448
deal gangwaymen	745	dental instrument maker	632	designer, show card	548
deal hand	473	dental mechanic	884	designer (silversmith, goldsmith)	296
deal porter (docks, &c.)	745	dental moulder	113	designer (soft toys)	686
deal porter (not at docks)	758	dental rubber finisher	698	designer, stamp	236
de-aeremated sulphuric acid man	143	dental rubber maker	698	designer, textile	399
de-aeremating sulphuric acid man	143	dental rubber packer	699	designer (textile)	398
de-aeromator, acid	143	denter (enamel sign)	279	designer (vertical print)	398
de-aeromator, sulphuric acid	143	dentist, mechanical	684	designer, tie	398
de-air collector	789	dentist's mechanic	143	designer, tie	398
dearhouse	449	dentist's mechanic	143	designer and transfer	630
deatir machine minder	384	dentist's assistant	159	designer of costumes	429
deauting machine minder	384	depositing department worker (copper)	149	designer's copyist	399
deck bay	735	depositor (carbon lamp)	319	design filter-in	399
deck band (sailing boat)	000	depositor, copper	262	design painter	399
deck hand (on board ship)	735	depositor, electro	262	design sketcher	399
deck hand, top (transients)	474	depositor, electro plaque	262	design tracer	932
deckle	735	depositor (electro-plating)	262	desilveriser	271
deck rigging	735	depositer, silver	262	desk maker	47
deck store-sweep	737	depositor's assistant	262	desktop carrier	47
decompress cleaner, nickel shed	279	depositor's fitter	298	despatch clerk	93
decompositing man	143	depository band	298	despatch clerk, hullable	93
decomposing pan man (salt cake)	143	deputy agent, coal	700	despatch clerk (warehouses)	93
decondinn hand	913	deput agent (railway)	700	despatcher (clerk)	93
decorated tile maker	569	deput foreman	716	despatcher (colliery)	94
decorative glass worker	106	deput inspector, goods	700	despatcher, goods	94
decorator, aerograph	586	deput inspector (tramways)	714	despatcher, newspaper	94
decorator, shurb	582	deput man	279	despatcher, train	70
decorator, cigar box	589	deput man	700	despatcher (warehouseman)	70
decorator (coach, &c.)	593	deput superintendent, district	714	despatch foreman	94
decorator, composition ornament	425	deput superintendent, repairs (tramways)	714	despatch man	94
decorator, confectionery	435	deput superintendent (tramways)	714	despatch man, office porter	94
decorator (cannelled ware)	241	deputy, assistant	041	desert hatter	22
decorator, floral	989	deputy, back-bye (coal mine)	041	destroyer, rabbit	97
decorator (flour confectionary)	433	deputy, back-hye (metalliferous mine)	051	destroyer, vermin	97
decorator, glass	138	deputy (coal mine)	041	destructor labourer	03
decorator (house)	582	deputy, day	041	detcher, intruce	70
decorator, house	582	deputy, face	051	detective, dock police	74
decorator (ornamental)	584	deputy (lodging house)	912	detective, private	92
decorator, ornamental	584	deputy (metalliferous mine or working)	051	detecture (railway)	70
decorator (paper staining)	535	deputy, night	041	detectur lock maker	24
decorator (pottery)	108	deputy (non-metalliferous mine or quarry)	071	deterat maker	32
decorator, ship	105	deputy, quoy	740	deterat maker, bromometer	14
decorator, table	329	deputy fireman	041	deterator drummer	14
decorator, tile	108	deputy horse fireman	715	deterator filler	14
decorator, yacht	582	deputy keeker	041	deterator incorporator	14
decolorating machine minder	449	deputy overall	041	deterator maker, electric	14
decoy keeper	910	deputy overman (coal mine)	041	deterator maker (filler)	14
decoy man	526	deputy overman (metalliferous mine or working)	051	deterator plater	14
decoy	910	deputy overman (metalliferous mine or working)	051	deterator presser (filler)	14
deep sea fisherman	060	deputy overman (metalliferous mine or working)	051	deterator presser (metal)	25
deer pinking labourer	581	deputy overman (metalliferous mine or working)	051	deterator silver	14
deer park keeper	910	deputy overman (metalliferous mine or working)	051	deterator trailer	14
deer stalker	910	deputy overman (metalliferous mine or working)	051	deterator weigher	14
dester, keel	738	deputy overman (metalliferous mine or working)	051	develper, film	50
deformity worker	663	deputy overman (metalliferous mine or working)	051	develope, photographic	50
degreaser	384	deputy overman (metalliferous mine or working)	051	develope, machine minder	50
degreaser (benzene)	153	deputy overman (metalliferous mine or working)	051	device maker	40
degreaser (benzine process)	153	deputy overman (metalliferous mine or working)	051	devil (power mill)	51
degreaser, bone	153	deputy overman (metalliferous mine or working)	051	devil, presser's	51
degreaser (benzine)	334	deputy overman (metalliferous mine or working)	051	devil (printer's)	51
degummer, resin	354	deputy overman (metalliferous mine or working)	051	devil (printer's)	51
dehailer	338	deputy overman (metalliferous mine or working)	051	deviler (cotton)	31
deliner	139	deputy overman (metalliferous mine or working)	051	deviler (hair)	31
deliner, allowance	570	deputy overman (metalliferous mine or working)	051	deviler, waste	31
deliverer, ball	758	deputy overman (metalliferous mine or working)	051	devilman (fertilizer)	14
delivrer, lock	758	deputy overman (metalliferous mine or working)	051	devilman (paper making)	51
		designer, art needlework	428	devil minder	31
		designer, bleacher's stamp	230	devil tender	31

Code Number.		Code Number.		Code Number.	
devil worker	362	digger, trench	581	dirt picker (colliery)	949
Devonshire clipper maker	344	digger	414	dirt refiner	270
dew-dropper	385	digger man	149	dirt rock boy	949
dewer (wood)	390	digger (colliery labourer)	947	dirt rock man	949
dextrose maker	159	digger (colliery roadmaking, &c.)	044	dirt sap boy	949
diaw maker	180	digger	043	dirt tip man	949
dial enameller	329	digger	043	dirt washer	185
dial engraver	283	diggerman	043	dise boy	139
dialist	322	dimension quarryman	072	dise cutter, bone	616
dialler, assistant	049	dining car attendant	929	dise cutter (cardboard box)	352
dialler, (coal mine)	040	dining car conductor	929	dise grinder	237
dialler (metalliferous mine or working)	050	dining centre helper	929	discharge, bar	279
dial maker, enamel	324	dining hall attendant	929	discharge, coal	279
dial maker, gold	324	dining hall maid	929	discharge, coal and ashes (copper roofing)	279
dial maker, silver	324	dining room attendant	929	discharge, coal lant	744
dial maker (watch, clock)	324	dining room keeper	929	discharge (coke oven)	068
dial painter	923	dining-table maker	411	discharge, flux dust	279
dial plate maker	324	dinker	044	discharge, fuel	089
dial weighing machine fitter	260	dip engine man	950	discharge, (gas works)	656
dial weighing machine maker	260	dip hand	241	discharge, lighter	746
dial writer	329	dip looker, engine	043	discharge (linoleum season- ing)	639
diamond borer	054	dip maker (candles)	152	discharge, ore	279
diamond cleaner	638	dip maker, sheep	149	discharge (patent fuel, &c.)	089
diamond cleaver	638	dipper, acid	250	discharge, pitch	089
diamond cutter	638	dipper, bolt	279	discharge, material	279
diamond die drilller	838	dipper (brass)	250	discharge, ship's	445
diamond dresser	638	dipper, brass	250	discharge, silk	388
diamond mesh worker	269	dipper (bronzing)	241	discharge, (template)	279
diamond mill cleaner	638	dipper, butter	435	discharge man	279
diamond monitor	234	dipper, buttoa	689	dise man	138
diamond polisher	638	dipper, calico	409	dise minder	138
diamond saw setter	139	dipper, calico frame	409	dise moulder	279
diamond sawyer	638	dipper (candles)	159	dise moulder broken	799
diamond setter (diamond tool making)	688	dipper (cardboard box mak- ing)	358	discounter, bill	799
diamond setter, glacier's	688	dipper, chocolate	435	dish cover maker (silver, put)	287
diamond setter (jewellery)	284	dipper, clay tobacco pipe	107	dish cover wheeler (metal works)	279
diamond sorter	638	dipper, colour	393	disher	270
diamond tool maker	688	dipper (compound cake)	159	disher	270
diamond tool maker, shaped	688	dipper (felt hats)	409	disher	270
diamond wire drilller	638	dipper, fondant	435	dish maker	145
diaphragm maker (gas meters)	348	dipper, four	435	dish maker, china	149
diaphragm maker, leather	940	dipper (galvanised sheet)	234	dish man	149
dictaphone operator	939	dipper, gas mantle	689	disinfecter (local authority)	969
die caster	278	dipper (gas mantles)	689	disinfecter (railway)	706
die-casting machine operator	278	dipper (general engineering)	278	disinfecter, telephone	969
die cutter	230	dipper (gold, silver, &c.)	296	disintegrator attendant	104
die engraver	230	dipper (gun cotton)	148	disintegrator, machinery	279
die fitter	210	dipper (holken-wire, wire goods, &c.)	234	disintegrator, ship	929
die fitter, petter's	210	dipper, iron	961	dispensary attendant	929
die forger	190	dipper, iron handle	279	dispensary collector	969
die hardener	220	dipper (japaning, enamel- ing)	241	dispense maid	900
die kicker	254	dipper, lace	396	dispensing chemist	770
die maker	209	dipper (leather drying)	339	displacement man (collated)	473
die miller	210	dipper, link	250	display cabinet maker	143
die planer	210	dipper, machine	107	display hand	789
die polisher-out	638	dipper, machine	107	display man, window	548
die presser	105	dipper, matches	143	dissolver, cobalt	143
die reamer	638	dipper, paint	592	dissolver (salt)	149
die setter (tin box, &c., mak- ing)	211	dipper (paper making)	518	dissolver man	143
die setter (wire drawing)	278	dipper (pottery)	107	distemperer	532
die shaper	200	dipper (raffa, grasses)	688	distemper maker	152
die sinker	230	dipper (rubber)	609	distiller	142
die sinker, engine	230	dipper, sanitary	107	distiller, acetic acid	142
die sinker (tool making)	230	dipper, sheep	409	distiller, benzoin	142
die sinker's machinist	230	dipper (felt hats)	409	distiller, benzoin	142
die stamper (metal)	254	dipper, size	518	distiller, essence	142
die stamper and piercer	254	dipper (sleeper mill)	279	distiller, essential oil	142
die stripper	190	dipper, sleeper mill	279	distiller, fatty acid	142
die stripping machinist	190	dipper, tile	107	distiller (lead)	171
die turner	200	dipper (tin boxes, canisters, &c.)	279	distiller, sulphur	142
Disteach kiln man	092	dipper, toffee	279	distiller, oil	142
digger (rubber)	609	dipper, (wire)	250	distiller, pitch	142
digester (white lead)	148	dipper (reed making)	279	distiller, resin (or rosin)	142
digester man (bone and fats)	148	dipper in tar	279	distiller, shale oil	142
digester man (manure)	148	dipper's assistant	119	distiller, tar	142
digester man (process worker)	143	dipper's boy	119	distiller, turpentine	142
digester man (white lead)	148	dipper's carrier-off	119	distiller, wood	142
digester man, white lead	148	dipper's cleaner	119	distiller, zinc	142
digger, bait	986	dipper's porter-up	119	distillery hand	279
digger (chalk, clay, flint, marl)	074	dipper's taker-off	119	distilling broker	599
digger (coprolite)	074	dip rider	043	distributing station engineer	692
digger (fossil)	074	direct ladleman	279	distributing station inspector	692
digger, grave	581	director, funeral	925	distribution engineer (gas works)	690
digger, gravest	581	director, musical (theatre)	836	distributor, bill	690
digger, Kentish rag	072	director of production	832	distributor, bronze coin	729
digger (metalliferous mine or working)	056	directory agent	774	distributor, news	755
digger (other quarries)	076	directory carrauser	774	distributor, powder	941
digger, peat	039	directory compiler	989	distributor, type	549
digger, pitch	199	directory traveller	774	distributor, valve	278
digger, sand	074	dirigler	047	distributor, wagon	704
digger (stone mine or quarry)	072	dirt boy	399	distributor, west	359
digger, strontia	076	dirt carrier	049	district engineering agent	710
digger, strontolite	076	dirt comper	049	district depot superintendent	704
		dirtle	047	district engineer (waterworks)	660
		dirt picker (clay)	074	district excess luggage weigher	700

Code Number.	Code Number.	Code Number.			
district fitter	235	doek foreman	740	doll's dressmaker	428
district foreman (gas and water mains)	561	doek gate foreman	740	doll stuffor	623
district foreman (gas, water and electricity supply)	692	doek labourer	741	doll wagger	698
district goods agent	700	doek labourer, dry	689	dolly	334
district goods inspector	700	doek labourer on coal lighter	744	dolly maker (tool maker)	190
district goods manager	700	doekman (doek)	745	dolly maker (wood)	498
district goods superintendent	700	doekman, fish	745	dollyman (laundry)	818
district inspector, assistant	714	doekman, horse	706	dolly man (machine minder)	314
district inspector (gas works)	682	doekman (railway)	706	dolly man (textile dyeing)	388
district inspector (omnibus)	714	doek master	731	dolly tub	477
district inspector (railway)	714	doek messenger	756	domestic grinder	229
district inspector (tramways)	714	doek pilot	740	domer	479
district inspector, locomotive super- intendent	700	doek police constable	749	domer, glove	429
district maintenance man (gas works)	698	doek police detective	749	domestic coachman	718
district messenger	700	doek policeman	749	domestic gardens	725
district mineral agent	700	doek porter	745	domestic laundry worker	915
district passenger agent	700	doek porter, foreman	740	domestic machinery engineer	244
district permanent way in- spector, permanent way in- spector, assistant	714	doek representative (not for dock company)	732	domestic nurse	900
district permanent way in- spector (tramways)	714	doek sampler (dock company) dock shunter	740	domestic utensil maker	105
district relief porter	700	doekman	740	domino maker	668
district relief signaller	700	doekman	740	donkey bath chair driver	728
district relieving man	706	doek superintendent	731	donkey boot proprietor	729
district superintendent (gas works)	692	doek warehouse porter	745	donkey driver	729
district superintendent (in- surance)	793	doekyard labourer	970	donkey engine driver	950
district superintendent (rail- way)	700	doctor, beauty	820	donkey engine man	950
district superintendent (water- works)	682	doctor, cop	399	donkey keeper	729
district syphon pump	693	doctor, pipe	451	donkey letter	729
district traffic foreman	704	doctor, pump (colliery)	847	donkey maker	350
district traffic inspector, as- sistant	714	doctor, pump (engineering works)	244	donkey man (on ship)	736
district traffic inspector (tramways)	714	doctor, pump (metalliferous mine or working)	054	donkeyman (on shop)	950
district traffic superintendent	700	doctor, saw	278	donkeyman, shorn	950
district travelling inspector	024	doctor, terra cotta	105	donkey pump man	950
districter (on farm)	572	doctor, velvet	379	doek engine man	950
districter, stone	589	doctor, fire (textile machinery) doctor maker (textile)	253	doek fitter	443
diver's attendant	999	doctor maker (textile)	278	doek footer	443
diver's clothing maker	646	doctor's boy	758	doek leader	443
diver's life line man	999	dodger	365	doek runner	443
diver's linesman	999	dodger (cotton spinning) dodger (textile)	099	doek attendant (colliery)	047
diver's signaller	999	dodger (seamless bleeder's or printer's)	399	doek boy (colliery)	917
diver's tender	999	doffer	399	doek boy (hotel, etc.)	917
diver, clinical thermometer	322	doffer, bebbin	399	doek boy (metalliferous mine or working)	054
diver, cobalt	143	doffer, card	399	doek boy (padding, rolling, tube, coils or steel works)	279
diver, engine	322	doffer, double	399	door cleaner	699
diver, hand	322	doffer, double	399	door drawer	279
diver, mathematical instru- ment	322	doffer, double	399	door dressing machinist	406
diver (scuba)	322	doffer, double	399	door hanger	047
divider	322	doffer, double	399	door keeper (colliery)	047
divider (type)	279	doffer, double	399	doorkeeper (hotel, etc.)	889
divider, velvet	398	doffer, double	399	doorkeeper, stage	279
divider of fountains	279	doffer, double	399	door lad	279
divisional goods manager	700	doffer, double	399	door lifter	279
divisional inspector, assistant	714	doffer, double	399	door maker, fireproof	098
divisional inspector (omnibus) divisional locomotive super- intendent	700	doffer, double	399	door maker (sides)	256
divisional permanent way in- spector, assistant	714	doffer, double	399	door maker, steel	258
divisional permanent way in- spector (tramways)	714	doffer, double	399	door maker, strong room	474
divisional superintendent	700	doffer, double	399	door maker (wood)	917
divisional traffic inspector, as- sistant	714	doffer, double	399	doorman (cinema)	088
divisional traffic inspector (tramways)	714	doffer, double	399	doorman, coke	088
divisional traffic super- intendent	714	doffer, double	399	doorman (coke oven)	088
division case maker	474	doffer, double	399	doorman, coke oven	088
double filter	210	doffer, double	399	doorman, coke yard	088
double (dollar) fitter	39	doffer, double	399	door man (colliery)	279
double cabin	398	doffer, double	399	door man (farriner's mill) door man, furnace	279
double basin maker for loom	398	doffer, double	399	door minder	354
double harnesser	398	doffer, double	399	door opener (gas works)	669
double lacer	398	doffer, double	399	door setter	047
double legger	398	doffer, double	399	door shuter (gas works)	699
double pegger	398	doffer, double	399	door tenter	047
double tackler	356	doffer, double	399	door washer	389
double weaver	370	doffer, double	399	dope knifer	397
dock and warehouse manager	745	doffer, double	399	dope machinist	397
dock board labourer	477	doffer, double	399	dope maker	397
dock cooper	749	doffer, double	399	dope maker (for aeroplane)	158
dock crewman	749	doffer, double	399	dope mixer, silk	149
docker, cork	638	doffer, double	399	doper	599

	Code Number.		Code Number.		Code Number.
doubler, finisher	369	drainer (railway)	577	drawer, conveyor	843
doubler, finishing	369	drainerman (paper making)	519	drawer, copper strip	278
doubler (flax, hemp)	363	drainerman, wood pulp	519	drawer, copper tape	268
doubler, flyer	369	drain layer	581	drawer, copper tube	268
doubler, frame (not silk)	371	drain layer, house	585	drawer, copper wire	268
doubler, frame (silk)	371	drainman (local authority)	570	drawer (cotton)	363
doubler (gun silk)	371	drainman (railway)	577	drawer, cycle tube	266
doubler (not silk)	366	drain pipe fitter	581	drawer, door (plate mill)	279
doubler, ring (not silk)	366	drain pipe maker	105	drawer, dust	119
doubler, ring (silk)	371	drain repeater, house	585	drawer, electrical wire	268
doubler, ring frame	369	drain tester	589	drawer, enamel kiln	109
doubler, single	363	drain filter (colliery—above ground)	549	drawer, envelope (bullet)	254
doubler, silver (flax, hemp)	366	drain filter (colliery—below ground)	542	drawee, fine (clothes re-	419
doubler, spare	371	drain lad	543	drawee, fine (textile mill)	379
doubler (spun silk)	371	drain lead	543	drawee, fine wire	268
doubler (throw silk)	371	drainman (coal mine)	543	drawee, iron	769
doubler (tinplate)	371	drainman, lime	599	drawee, firing tube	266
doubler, trap	371	drainman (silk)	399	drawee (flax, hemp)	363
doubler, wet	366	drainman, silk	399	drawee, fork	190
doubler (wood)	417	drain roller	543	drawee, gear	368
doubler and sewer, sack	399	drain tester	543	drawee, gear	363
doubler doffer	369	draper, credit	770	drawee, gill	138
doubler re-winder (cotton thread)	367	draper (dyeing)	770	drawee, glass	138
doubler finisher minder	362	draper, market	777	drawee, glass	138
doubler finisher tender	362	draper, Scotch	770	drawee, glass	109
doubler minder	366	draper, tailor	770	drawee, gold and silver wire	298
doubler of shute	371	draper, travelling	770	drawee, gold wire	298
doubler overlooker (silk)	355	draper, woad	770	drawee, hat	363
doubler piecer (not silk)	368	draper's value	796	drawee, hair	363
doubler piecer (silk)	371	draught board maker	585	drawee (handkerchief making)	428
doubler's holder (galvanised sheet)	279	draughtsman, aeronautical	932	drawee, harness	368
doubler's holder (galvanised sheet)	279	draughtsman, architectural	932	drawee, horse	54
doubler's holder (galvanised sheet)	279	draughtsman, architectural	932	drawee, horsehair	363
doubler's holder (galvanised sheet)	279	draughtsman, architectural	932	drawee, hydraulic line	199
doubler's holder (galvanised sheet)	279	draughtsman, architectural	932	drawee (iron or steel)	358
doubler's holder (galvanised sheet)	279	draughtsman, architectural	932	drawee (iron or steel)	358
doubler's holder (galvanised sheet)	279	draughtsman, architectural	932	drawee, kiln (bricks)	189
doubler's holder (galvanised sheet)	279	draughtsman, architectural	932	drawee, kiln (bricks)	189
doubler's holder (galvanised sheet)	279	draughtsman, architectural	932	drawee, kiln (cement)	999
doubler's holder (galvanised sheet)	279	draughtsman, architectural	932	drawee, kiln (pottery)	109
doubler's holder (galvanised sheet)	279	draughtsman, architectural	932	drawee, kiln (sugar refining)	449
doubler's holder (galvanised sheet)	279	draughtsman, architectural	932	drawee, lace (finishing)	385
doubler's holder (galvanised sheet)	279	draughtsman, architectural	932	drawee, leather	133
doubler's holder (galvanised sheet)	279	draughtsman, architectural	932	drawee, lime (kiln)	698
doubler's holder (galvanised sheet)	279	draughtsman, architectural	932	drawee, lime (anyway)	333
doubler's holder (galvanised sheet)	279	draughtsman, architectural	932	drawee, long wool	368
doubler's holder (galvanised sheet)	279	draughtsman, architectural	932	drawee (metalliferous mine or working)	554
doubler's holder (galvanised sheet)	279	draughtsman, architectural	932	drawee (mill department)	371
doubler's holder (galvanised sheet)	279	draughtsman, architectural	932	drawee, miner's (also filling)	942
doubler's holder (galvanised sheet)	279	draughtsman, architectural	932	drawee, miner's (drawing only)	943
doubler's holder (galvanised sheet)	279	draughtsman, architectural	932	drawee, music wire	268
doubler's holder (galvanised sheet)	279	draughtsman, architectural	932	drawee (not wire or tube)	254
doubler's holder (galvanised sheet)	279	draughtsman, architectural	932	drawee (paper making)	519
doubler's holder (galvanised sheet)	279	draughtsman, architectural	932	drawee, sock	190
doubler's holder (galvanised sheet)	279	draughtsman, architectural	932	drawee, pinion wire	268
doubler's holder (galvanised sheet)	279	draughtsman, architectural	932	drawee, piston	333
doubler's holder (galvanised sheet)	279	draughtsman, architectural	932	drawee, plating straw	429
doubler's holder (galvanised sheet)	279	draughtsman, architectural	932	drawee, platinum wire	109
doubler's holder (galvanised sheet)	279	draughtsman, architectural	932	drawee (pottery)	298
doubler's holder (galvanised sheet)	279	draughtsman, architectural	932	drawee (precious metals)	947
doubler's holder (galvanised sheet)	279	draughtsman, architectural	932	drawee, prop	273
doubler's holder (galvanised sheet)	279	draughtsman, architectural	932	drawee (quidding)	268
doubler's holder (galvanised sheet)	279	draughtsman, architectural	932	drawee, reed wire	268
doubler's holder (galvanised sheet)	279	draughtsman, architectural	932	drawee, reed (gas works)	693
doubler's holder (galvanised sheet)	279	draughtsman, architectural	932	drawee, reed (mural oil)	149
doubler's holder (galvanised sheet)	279	draughtsman, architectural	932	drawee, rubber	698
doubler's holder (galvanised sheet)	279	draughtsman, architectural	932	drawee, salt	698
doubler's holder (galvanised sheet)	279	draughtsman, architectural	932	drawee, sample	276
doubler's holder (galvanised sheet)	279	draughtsman, architectural	932	drawee, set (silk spinning)	363
doubler's holder (galvanised sheet)	279	draughtsman, architectural	932	drawee (silk spinning)	363
doubler's holder (galvanised sheet)	279	draughtsman, architectural	932	drawee, silver wire	298
doubler's holder (galvanised sheet)	279	draughtsman, architectural	932	drawee, steel	254
doubler's holder (galvanised sheet)	279	draughtsman, architectural	932	drawee, steel wire	268
doubler's holder (galvanised sheet)	279	draughtsman, architectural	932	drawee, stock	268
doubler's holder (galvanised sheet)	279	draughtsman, architectural	932	drawee, tapered packing	190
doubler's holder (galvanised sheet)	279	draughtsman, architectural	932	drawee, thread (for hem-	429
doubler's holder (galvanised sheet)	279	draughtsman, architectural	932	drawee, thread (handkerchief)	428
doubler's holder (galvanised sheet)	279	draughtsman, architectural	932	drawee, timber (coal mine)	947
doubler's holder (galvanised sheet)	279	draughtsman, architectural	932	drawee, timber (metalliferous mine or working)	554
doubler's holder (galvanised sheet)	279	draughtsman, architectural	932	drawee (tube)	266
doubler's holder (galvanised sheet)	279	draughtsman, architectural	932	drawee, tube (glass)	124
doubler's holder (galvanised sheet)	279	draughtsman, architectural	932	drawee, tube (metal)	266
doubler's holder (galvanised sheet)	279	draughtsman, architectural	932	drawee, tubing	698
doubler's holder (galvanised sheet)	279	draughtsman, architectural	932	drawee, tangle wire	263
doubler's holder (galvanised sheet)	279	draughtsman, architectural	932	drawee, tarline blade	254
doubler's holder (galvanised sheet)	279	draughtsman, architectural	932	drawee (wrap)	368
doubler's holder (galvanised sheet)	279	draughtsman, architectural	932	drawee (wire, not gold or silver)	268
doubler's holder (galvanised sheet)	279	draughtsman, architectural	932	drawee, wire (not gold or silver)	268
doubler's holder (galvanised sheet)	279	draughtsman, architectural	932	drawee (wool combing)	363
doubler's holder (galvanised sheet)	279	draughtsman, architectural	932	drawee (woollen cloth)	399
doubler's holder (galvanised sheet)	279	draughtsman, architectural	932	drawee, yarn	399
doubler's holder (galvanised sheet)	279	draughtsman, architectural	932	drawee (zinc extraction)	268
doubler's holder (galvanised sheet)	279	draughtsman, architectural	932	drawee, zinc rod	268
doubler's holder (galvanised sheet)	279	draughtsman, architectural	932	drawee, zinc tube	268

	Code Number.		Code Number.		Code Number.
drawer and marker	286	drawer, box	940	dresser, lime	149
drawer boy	38	drawer, Bradford (wool)	369	dresser, lime	363
drawer-down (rolling mill)	279	drawer (brass foundry)	185	dresser, loam	183
drawer-in (textile)	368	drawer, brass tube	279	dresser, machine	363
drawer-in, warp	368	drawer (brick kiln)	109	dresser (machine chipping)	379
drawer-in of heads	368	drawer, bristle	632	dresser, Manila	363
drawer-maker	264	drawer (brushmaking)	632	dresser, meat	446
drawer-off (brewery)	450	drawer, calico mop	899	dresser (metal trades)	279
drawer-off (coal mine)	043	drawer, canvas	118	dresser, metal (foundry)	163
drawer-off (wool)	632	drawer (card clothing)	225	dresser, multisteel	375
drawer-off, cork	499	drawer, card (card clothing)	225	dresser, mop	099
drawer-off (loom)	391	drawer, card (felt)	364	dresser, mop and bath	099
drawer-off (paper making)	519	drawer, card wire	236	dresser, mustard	446
drawer-off (seed crushing)	159	drawer (carpets)	384	dresser, mustard seed	443
drawer-off (sugar confectionery)	449	drawer, cast sheet	410	dresser, neat's foot	446
drawer-out, gear (iron and steel)	950	drawer, casting (iron or steel)	163	dresser, roller frame	363
drawer-out (iron and steel rolling)	279	drawer, casting (precious metals)	267	dresser (rot sipping)	394
drawer's dogger-up, steel tube	279	drawer, castings	185	dresser (rot wool)	369
drawers maker	473	drawer, centre	279	dresser, oatmeal	432
drawer's macher	399	drawer (cereal foods and starches)	446	dresser, oil	440
draw frame tenter, assistant	369	drawer, chest	575	dresser, oil cover	639
draw frame tenter, back (draw frame)	399	drawer, chief	091	dresser, olefin	423
draw frame tenter (cotton)	363	drawer, clay	074	dresser, ore (charge hand, zinc extraction)	278
draw frame tenter, front	363	drawer, clock	323	dresser, ore (lead extraction)	279
drawing board maker	490	drawer, cloth (finishing)	304	dresser, ore (metalliferous mine-above ground)	056
drawing box mender	363	drawer, cloth (machine cupping)	379	dresser, ore (metalliferous mine-below ground)	054
drawing box tenter	368	drawer, cochineal	148	dresser, ore (tin mines)	056
drawing ender (jute)	363	drawer, cocoa	446	dresser, ore (zinc extraction)	279
drawing ender (wool combing)	363	drawer, collar	918	dresser, patent	363
drawing feeder	363	drawer, coloured (wool)	309	dresser, pattern (making-up)	943
drawing frame attendant (flax, hemp, cotton)	363	drawer, comb	237	dresser, pattern (mending)	379
drawing frame attendant (warp)	368	drawer, comb (fettler)	163	dresser, pattern (winding)	367
drawing frame mender	363	drawer, comb (grinder)	056	dresser, paving	575
drawing frame tenter (cotton)	363	drawer, copper	384	dresser, piece	363
drawing hand, bristle	633	drawer, cord	384	dresser, pipe	363
drawing hand (brush, broom)	633	drawer, corduroy	384	dresser, plate (iron or steel)	237
drawing hand, double	363	drawer, cork	639	dresser, plate mill	237
drawing hand (hair)	363	drawer, cotton warp	399	dresser (pottery)	118
drawing hand, machine	633	drawer (diamond)	636	dresser, poultry	446
drawing hand (rope and twine)	363	drawer, diamond	636	dresser (puddler's tools)	190
drawing hand (textile)	363	drawer, doll	609	dresser, pyrites	149
drawing hand (wool combing)	363	drawer, dry sand	279	dresser, rail	279
drawing instrument maker	322	drawer, end	364	dresser, residue (minc)	278
drawing jobber	396	drawer, face	072	dresser, retort (brickyard)	119
drawing machine minder	363	drawer, feather	632	dresser, rop	446
drawing mounter	550	drawer (felt)	364	dresser, rubble	573
drawing overlooker	333	drawer, fibre (brush, broom)	636	dresser, sail sheet	418
drawing tender (cotton)	363	drawer, fibre (textile mill)	362	dresser, sausage casings	446
drawing tender (silk)	363	drawer (fibre)	279	dresser, sausage skin	446
drawn glass worker	158	drawer (hrs clay mine)	074	dresser, sinners	238
drawn glass sewer	411	drawer, first frame	363	dresser, Scotch	363
drawn thread worker	419	drawer, flag	575	dresser, second frame	363
draw press hand	254	drawer, flax	363	dresser, seed (mustard)	446
draw press worker	254	drawer, flint	575	dresser, sett	575
draw tender (cotton)	363	drawer, floor	474	dresser, sheep's trotter	446
draw boy	723	drawer, flour	446	dresser, shirt	918
draw maker	475-6	drawer, flour (flour confectionery)	446	dresser, shirt and collar	918
drawman	719	drawer, fly	432	dresser, shoddy	072
drawman's assistant	723	drawer, locomotive	661	dresser, short frame	363
draw nipper	723	drawer, low	446	dresser, silk	363
draw washer	723	drawer, frame	363	dresser, skin	334
draw hopperman	723	drawer, fur	338	dresser, skin (slaughterhouse)	338
drawman	728	drawer, game	446	dresser, slate	575
drawer, coal	728	drawer, gold and/or silver wire	298	dresser (slate mine or quarry)	073
drawer, gravel	074	drawer, green sand	183	dresser, Spanish leather	338
drawer, oyster	000	drawer, gum	159	dresser, sponge	158
drawer (river, canal)	738	drawer, gypsum	076	dresser, stamp floor	056
drawer (stone mine or quarry)	072	drawer, hair (broom, brush)	636	dresser, steel	183
drawer captain	733	drawer, hair (horse hair)	363	dresser (stick making)	484
drawerman	733	drawer, hair (horsehair finishing)	396	dresser (stone)	575
drawing master	733	drawer, hand (flax, hemp)	362	dresser, stone	575
drawing foreman	740	drawer, harness furniture	296	dresser, stone and flag	579
drawing master	731	drawer, hals	456	dresser (staple, etc.)	579
drawing master and marine engineer	731	drawer, hals	456	dresser, telegraph pole	499
drawing superintendent	731	drawer, hals	456	dresser (theatre, etc.)	637
drawn agent	770	drawer, hals	456	dresser, third frame	363
draw designer	428	drawer, hals	456	dresser, tin	056
drawn cloth harrier	379	drawer, hals	456	dresser, tin yard	036
drawn, artificial fly	586	drawer, hals	456	dresser, trips	446
drawn, assistant	369	drawer, hals	456	dresser, trotter	443
drawn, axle	278	drawer, hals	456	dresser, tube	279
drawn, axle box	183	drawer, hals	456	dresser, twine	380
drawn (hayries mine)	076	drawer, hals	456	dresser (type)	278
drawn, bladder	448	drawer, hals	456	dresser, type	278
drawn (bleaching)	398	drawer, hals	456	dresser, tyre	279
drawn, blocking	575	drawer, hals	456	dresser, van sheet	418
drawn, bob	279	drawer, hals	456	dresser, wagon	706
drawn, belt	190	drawer, hals	456	dresser, wallstone	575
drawn (bolts, nuts, etc.)	190	drawer, hals	456	dresser, warp (drawing and twisting)	368
drawn, bow	237	drawer, hals	456	dresser, warp (sizing, not wool)	369
		drawer, hals	456	dresser, warp (splitting)	367
		drawer, hals	456	dresser, warp (wool finishing)	364
		drawer, hals	456	dresser, warp (wool sizing)	367

	Code Number.		Code Number.		Code Number.	
dresser, waste (silk) ...	363	driller, electric ...	231	drill twister ...	278	
dresser, woad ...	448	driller, electrical ...	072	drill worker ...	054	
dresser, wheel ...	279	driller (crinoid, &c.) ...	619	drill worker, rock ...	054	
dresser, wheel centre ...	279	driller, faller ...	200	dripping maker ...	159	
dresser, window ...	789	driller, flyer (textile machinery) ...	200	dripping melter ...	159	
dresser (wire netting, rope, &c.) ...	279	driller, flyer pin ...	200	dripping roller ...	159	
dresser, wood ...	380	driller, flyer presser ...	200	driver, ambulance (horse) ...	718	
dresser (woolen felt) ...	369	driller, frame (hard, pneu- matic, electric) ...	231	driver, ambulance (motor) ...	720	
dresser, yarn ...	369	driller, frame (machine) ...	200	driver (anchor) ...	190	
dresser, Yorkshire ...	369	driller, gas burner ...	200	driver, arbor ...	270	
dresser and sizer, stamp (tubes) ...	272	driller, gas ring ...	200	driver, assistant (iron and steel) ...	950	
dresser-down ...	072	driller (glass) ...	138	driver, assistant (textile ma- chine) ...	955	
dresser-off (saw mill) ...	486	driller, glass ...	138	driver, assistant turbine ...	950	
dresser's assistant ...	363	driller, handle ...	200	driver, auto-car ...	701	
dresser's filler ...	363	driller, head ...	231	driver, auto-carrier ...	706	
dress goods weaver ...	370	driller, hand ...	200	driver, beagle ...	041	
dress guard lacer ...	345	driller (hand, pneumatic, electric) ...	231	driver, blowing engine ...	950	
dressing case maker ...	056	driller, head tip ...	200	driver, bus ...	710	
dressing floors labourer ...	056	driller, hub ...	200	driver, cab (horse) ...	710	
dressing floors man ...	419	driller, hydraulic ...	231	driver, cab (motor) ...	720	
dressing gown maker ...	639	driller, iron ...	200	driver, cable machine ...	318	
dressing machine hand, twist ...	363	driller, jill ...	200	driver, cable tramcar ...	722	
dressing machine minder, flat patent ...	363	driller, key ...	200	driver, capstan ...	706	
dressing machine minder, patent ...	056	driller (machine) ...	200	driver, car (motor) ...	720	
dressing man ...	056	driller, machine (colliery) ...	047	driver, carriage ...	718	
dressmaker ...	405	driller, machine (hand, pneu- matic, electric) ...	231	driver, cart ...	719	
dressmaker, doll's ...	405	driller, machine (metallic mine or working) ...	054	driver, castor ...	719	
dressmaker's hat maker ...	405	driller, machine (metal trades)	200	driver, cattle float ...	719	
dressmaker's helper ...	405	driller, machine knife ...	200	driver, chain horse ...	704	
dress mender ...	379	driller, metal ...	047	driver, charger (steel) ...	276	
dress pattern maker ...	552	driller, metal cement ...	200	driver, charging machine ...	693	
dress pattern stamper ...	405	driller (metalliferous mine or working) ...	054	driver (clay, gravel-pit, &c.) ...	074	
dress renovator ...	139	driller (mica mine) ...	054	driver, coach, carriage or horse omnibus ...	718	
drillable boy ...	139	driller, mouthpiece ...	054	driver, coal cutter ...	042	
drillable ...	458	driller, nail ...	054	driver, coal cutting machine ...	042	
dried grainman ...	449	driller, oil well ...	590	driver, coaling drom ...	279	
dried milk machinist ...	449	driller, plate ...	200	driver (colliery) ...	043	
dried milk maker ...	519	driller, pneumatic ...	231	driver, compressor ...	950	
drier (asbestos) ...	279	driller, radial ...	200	driver, controller ...	954	
drier, blonde ...	279	driller, rail ...	200	driver, conveyor ...	950	
drier, calamine ...	279	driller, rim ...	200	driver, copper van ...	950	
drier, mellow (rare) ...	448	driller, rock (metalliferous mine or working) ...	054	driver, crane ...	950	
drier, mustard seed ...	488	driller, rock (slate mine or quarry) ...	072	driver, crusher ...	072	
drier, runner ...	279	driller, rock (stone mine or quarry) ...	072	driver, delivery van ...	719	
dries-down ...	200	driller, sample ...	200	driver, denkey ...	729	
drifter (boots, nuts) ...	047	driller, shell ...	231	driver, donkey bath chair ...	729	
drifter (colliery) ...	047	driller, slot ...	200	driver, donkey engine ...	950	
drifter, cross measure ...	279	driller (stone mine or quarry)	072	driver (drifter) ...	734	
drifter (cable chain) ...	054	driller, toe tip ...	200	driver, drill ...	072	
drifter (metalliferous mine or working) ...	054	driller, vertical machine ...	200	driver, drop stamp ...	190	
drifter, stone ...	047	driller, vice pin ...	200	driver, drop stamp hammer ...	190	
drifter fisherman ...	000	driller, well ...	580	driver, electric crane ...	950	
drifter hand ...	000	driller, wheel ...	200	driver, electric conveyor ...	954	
drifter owner ...	000	driller, wheel hub ...	200	driver, electric haulage ...	954	
drift maker ...	072	driller, window frame (metal casements) ...	200	driver (electricity supply) ...	954	
driftman (coal mine) ...	042	driller, window pin ...	486	driver, electric motor bogie ...	720	
driftman, collier (lower) ...	047	driller (wood working machi- ne) ...	486	driver, electric omnibus ...	088	
driftman, collier (not a hewer)	047	driller's attendant ...	072	driver, electric trolley ...	722	
driftman, stone ...	000	driller's bench cleaner ...	279	driver, electric transporter ...	954	
drift set fisherman ...	000	drill feeder (rail mill) ...	279	driver, electric truck ...	760	
drill carrier (metalliferous mine or working) ...	054	drill feeder, rail ...	279	driver, electric van ...	720	
drill carrier (metal works) ...	279	drill grinder ...	200	driver, endless rope engine ...	950	
drill carrier (stone mine or quarry) ...	072	drill hardener ...	220	driver, engine (locomotive) ...	701	
drill changer ...	047	drilling hand, brush ...	688	driver, engine (ship) ...	734	
drill charger (coal mine) ...	047	drilling machine attendant ...	200	driver, engine (stationary) ...	950	
drill charger (metalliferous mine or working) ...	054	drilling machine man ...	054	driver, engine (threshing ma- chine) ...	021	
drill cleaner (rail mill) ...	279	drilling machine worker ...	200	driver, exhaustor ...	950	
drill cleaner, rail ...	279	drilling machinist, brush ...	688	driver, exhaustor engine ...	950	
drill driver ...	072	drilling machinist (metal) ...	200	driver, fan ...	385	
driller, air (pneumatic) ...	231	drill maker (boothsmith) ...	190	driver, filter ...	719	
driller, anchor ...	231	drill maker (twist) ...	200	driver, flat ...	719	
driller, artesian ...	580	drillman, machine (metallif- ferous mine or quarry) ...	054	driver, forcing machine ...	682	
driller, axle box ...	200	drillman (on farm) ...	024	driver, forge hammer ...	190	
driller, barrel ...	000	drillman, rock (metalliferous mine or working) ...	054	driver, freight tramcar ...	722	
driller (barries, rock, salt, &c.) ...	076	drill man, rock (stone mine or quarry) ...	072	driver, gal ...	043	
driller, body (motor car) ...	200	drill pointer ...	237	driver, gas ...	384	
driller, body (vehicles) ...	231	drill runner ...	072	driver, goat carriage ...	729	
driller, bone brush ...	618	drill sharpener (mine or quarry) ...	190	driver, grab ...	710	
driller, brass ...	200	drill straightener ...	190	driver, hackney carriage ...	190	
driller (brine well) ...	580	drill straightener, twist ...	190	driver, hatching ...	042	
driller (broom and brush) ...	688			driver, haulage ...	950	
driller, brush ...	688			driver, hauling engine ...	950	
driller, button ...	589			driver, hauling horse ...	738	
driller, card cylinder ...	200			driver, heading (coal mine) ...	042	
driller, card roller ...	200			driver, heading (stone mine or quarry) ...	072	
driller, casement ...	200			driver, hoist ...	950	
driller, circle ...	200			driver, boring machine ...	738	
driller (colliery) ...	047			driver, horse (casual) ...	738	
driller, cycle ...	200			driver, horse (clay, gravel, &c.) ...	074	
driller, diamond die ...	638					
driller, diamond wire ...	630					

	Code Number.		Code Number.		Code Number.
driver, horse (coal mine) ...	043	driver,rolley ...	043	drop stamper (not hot or	254
driver, horse (metalliferous		driver,rolleyway ...	043	hydraulic) ...	190
mine or working) ...	054	driver,rolling mill engine ...	350	drop stamper, pocket blade	254
driver, horse omnibus ...	718	driver,rollway ...	043	drop stamper (groceries	286
driver, horse (slate mine or		driver,saw ...	279	metal) ...	190
quarry) ...	073	driver,scoop ...	693	drop stamp forger ...	171
driver, horse (stone mine or		driver,screw gear ...	178	drop stamp furnaceman ...	171
quarry) ...	072	driver,shoar ...	278	drop stamp hammer driver	279
driver, horse tramcar ...	722	driver,shifting ...	350	drop breaker ...	279
driver, hydraulic crane ...	350	driver,shunt horse ...	704	drawee (metal trades) ...	279
driver, incline ...	318	driver,shunting ...	701	drawee (red lead) ...	143
driver, impregnating pump ...	073	driver,shunting engine ...	701	draw man ...	279
driver, incline ...	350	driver,slab shear ...	278	draw meller ...	279
driver, jumbo turbine ...	850	driver,slag loco ...	950	drawer (cattle) ...	596
driver, kiln engine ...	850	driver,slitting machine ...	559	drawee, cattle ...	074
driver, lead press ...	278	driver,spreading machine ...	319	drawee (clay, gravel-pit)	074
driver (leather cloth) ...	639	driver,stage coach ...	718	draw compounder ...	148
driver, licensed ...	718	driver,steaming engine ...	550	drawst ...	770
driver, bit ...	190	driver,stationary engine ...	350	drawst's sundriesman ...	148
driver, loco. crane ...	950	driver,steam crane ...	734	draw grinder ...	981
driver, loco. ...	701	driver,steam dredger ...	950	draw keeper ...	381
driver (locomotive) ...	701	driver,steam excavator ...	190	draw rooper man ...	609
driver, loco. (works) ...	719	driver,steam hammer ...	721	draw stevedore ...	541
driver, lorry (or lorry) (horse)	720	driver,steam lorry ...	721	draw tender ...	609
driver, lorry (motor) ...	693	driver,steam roller ...	721	draw and barrel cleaner ...	970
driver, machine barrel ...	499	driver,steam roller ...	721	draw and cage hand ...	339
driver, mail (horse) ...	719	driver,steam roller ...	721	draw and keg maker ...	254
driver, mail (motor) ...	720	driver,steam tractor ...	721	draw brakeman ...	054
driver, mail cart ...	719	driver,steam wagon ...	721	draw brakeman, incline ...	034
driver, mail van (horse) ...	720	driver,sterilizer ...	364	draw builder ...	474
driver, mail van (motor) ...	720	driver,stonehead ...	547	draw cleaner ...	139
driver (metalliferous mine or		driver,tank ...	720	draw carrier ...	334
working) ...	054	driver,tank-car ...	720	draw feeder ...	039
driver, mine ...	047	driver,tank-ownee ...	720	draw filler (carpels) ...	359
driver (motor) ...	720	driver,team ...	713	draw filler (textile printer's)	390
driver, motor ...	720	driver,telpher ...	954	draw finisher ...	390
driver, motor cab ...	720	driver,telpher motor ...	954	draw finisher, striking ...	390
driver, motor car ...	720	driver, textile machine ...	365	draw house ganger ...	331
driver, motor char-a-banc ...	720	driver, tinning machine ...	283	draw labourer (fur dressing)	339
driver, motor (collery) ...	954	driver,tip crane ...	950	draw labourer (fisher)	339
driver, motor lawn mower ...	013	driver, lower wagon (horse)	720	draw lad ...	043
driver, motor lorry ...	720	driver, lower wagon (motor)	720	draw lagger ...	339
driver, motor (motor vessel)	720	driver, tracing ...	043	draw layer ...	339
driver (motor omnibus) ...	720	driver, traction engine (not	721	draw machine minder ...	474
driver, motor omnibus ...	720	agricultural) ...	021	draw maker (cable) ...	474
driver, motor plough ...	021	driver, traction engine (thresh-	021	draw maker, cable ...	474
driver, motorrolley ...	720	ing machine) ...	021	draw maker (metal) ...	284
driver, motor rully ...	720	driver, tractor ...	721	draw maker (musical instra-	540
driver, motor steam dray ...	721	driver, tractor (not on farm)	721	ment) ...	331
driver, motor sweeper ...	720	driver, turn ...	722	draw man, chief ...	331
driver, motor steam lorry ...	721	driver, transporter ...	279	draw man (slate mine or	073
driver, motor tractor (not on		driver, trap ...	718	quarry) ...	027
farm) ...	721	driver, traveller's ...	718	drawner (cinema film)	339
driver, motor tractor (on		driver, traverse ...	718	drawner, detonator ...	149
farm) ...	021	driver, truck ...	704	drawner (leather) ...	339
driver, motor truck ...	709	driver, truck horse ...	704	drawner (musician) ...	086
driver, motor van ...	720	driver, turbine ...	950	drawner (not silk)	387
driver, motor wagon ...	720	driver, vacuum pump ...	950	drawner (silk waste)	396
driver, motor water-cart ...	720	driver, van (horse) ...	719	drawner (silk winding)	371
driver, motor wherry ...	720	driver, van (motor) ...	720	drawner, silk (winding)	371
driver, navy ...	950	driver, wagon ...	054	drawner, smith's (striker)	596
driver, oil tank (horse) ...	719	driver, wagonette ...	718	drawner, wheel ...	054
driver, oil tank (motor) ...	720	driver, water cart ...	719	draw painter ...	592
driver, omnibus ...	720	driver, water gas ...	953	draw sprayer ...	054
driver, overhead wagon		driver, water wheel ...	950	draw stick maker ...	040
(horse) ...	718	driver, wherry ...	719	draw stripper (carpet yarn)	380
driver, overhead wagon		driver, winch ...	950	draw stripper (textile print-	390
(motor) ...	720	driver, winding engine ...	950	ing) ...	390
driver, owner (taxi) ...	720	driver, winch ...	950	draw stuff ...	334
driver, parcel van ...	719	driver, winding engine ...	734	draw tender ...	043
driver, petrol-electric omnibus	720	driver, of motor ...	720	draw washer (glycerine)	367
driver, petrol lorry ...	720	driver's assistant, motor	723	draw winde ...	339
driver, pile ...	581	driver's assistant, motor lorry	723	draw worker ...	367
driver, pneumatic hammer ...	190	driver's assistant, motor van	723	dry beater ...	394
driver, pony (clay, gravel		driver's assistant, turbine ...	950	dry boy ...	056
pit) ...	074	drop barer (blast furnace)	278	dry clay hand attendant	449
driver, pony (coal mine) ...	043	drop cutter (glass) ...	126	dry cleaner ...	929
driver, pony (metalliferous		drop cutter, glass ...	126	dry colour grinder ...	152
mine or working) ...	054	drop forger ...	190	dry colour maker ...	152
driver, pony (pottery) ...	119	drop forge worker ...	190	dry colourer ...	477
driver, pony (stone mine or		drop hammer assistant	190	dry counterpane ...	942
quarry) ...	072	drop hammerman ...	190	dry dock labourer ...	663
driver, pony carriage ...	719	drop hammer smith ...	190	dry doubler ...	366
driver, porter ...	719	dropman (blast furnace)	278	dry ender ...	518
driver, post cart ...	719	dropman, gantry (blast	278	dry end man ...	518
driver, press ...	190	furnace) ...	278	dryer, alkali ...	149
driver, pump ...	950	dropman, gantry (steel works)	278	dryer, ammonium nitrate	149
driver, pump (vacuum clean-		dropper, fire ...	709	dryer, bacon ...	437
ing) ...	950	dropper (oil shale) ...	149	dryer, bag (sugar) ...	449
driver, pumping engine ...	950	dropper, retort ...	435	dryer, calico ...	396
driver, pusher ...	278	dropper (sweats) ...	278	dryer, canvas dressing	418
driver, rack ...	720	dropper maker ...	278	dryer, cellulose acetate	143
driver, rail-less car ...	720	dropper-on, tyre ...	278	dryer (cereal foods, starches)	449
driver, rail-less tram ...	701	dropper-on, wheel ...	278	dryer, cloth (finishing)	384
driver, rail motor car ...	701	drop pin maker ...	190	dryer, cloth (general)	386
driver, rake (gas works) ...	699	drop stamp driver ...	190	dryer, colour ...	149
driver, reel ...	279	drop stamper (hot)	190	dryer, continuous ...	159
driver, retort charge ...	693	drop stamper, hot ...	190		

	Code Number.		Code Number.		Code Number.
dryer, cop	396	drying shed worker	339	dyehouse jobber	399
dryer, cordite	149	drying stove hand	339	dyehouse machine man, black	399
dryer, cotton (guncotton)	149	dry kiln man	392	dyehouse machine man, colour	399
dryer (cycles)	341	dry man (china clay)	392	dyeing machine man	399
dryer (leather dressing)	339	dry man (metal mine)	396	eye maker, aniline	143
dryer, felt	398	dry mangle	398	eye maker, coal tar	143
dryer, flue	398	dry miller	199	eye mangle	384
dryer, fulminate	143	dry mixer (medicinal powders)	149	eye man	391
dryer (galvanized sheets)	279	dry mixer (pills)	148	eye, aniline black	381
dryer, gelatine	159	dry mixer (rubber)	682	eye, bark	381
dryer, glue	159	dry moulder	399	eye, bass	639
dryer (gunpowder)	399	dry picker	619	eye, black	381
dryer (hair curling)	399	dry plate cutter	688	eye, black (textile-foreman)	359
dryer, hair (felt)	398	dry plate maker	688	eye, blue vat	335
dryer, ham	437	dry plate worker	688	eye (bone, horn)	619
dryer, bank	390	dry rubber man	602	eye, curl	381
dryer (laundry)	918	dryreiter	100	eye, palico	359
dryer (drying drum)	338	dry sand dresser	183	eye, carpet	383
dryer (drying shed)	338	dry sand moulder	398	eye, coal yarn	632
dryer, linen	380	dry setter	399	eye, colour (textile)	381
dryer, malt	452	dry slasher	159	eye, leather	632
dryer, milk	449	dry soap grinder	159	eye, three (brush making)	639
dryer, nitro-cotton	148	dry soap maker	365	eye, fibre (textile)	359
dryer, oxalic acid	149	dry soap miller	159	eye, foreman	359
dryer (paper mill)	516	dry spinner (flax and hemp)	382	eye, glove	359
dryer, paper mache	538	dry stowage valuer	572	eye, hair	359
dryer, plate (ammunition)	318	dry tapper	572	eye (hairdressing)	620
dryer, plate (photographic)	688	dry walker	519	eye, bank	381
dryer (process worker)	143	dryworker (board making)	518	eye (bat)	428
dryer, rag	399	dryworker (hand made paper)	518	eye, hat leather	335
dryer (rubber)	603	dubber (treworks)	149	eye, head	359
dryer, salt	098	dubber, velvet (fustian out- ting)	380	eye, indigo	381
dryer, sand (railway)	709	dobbin maker	158	eye, indigo vat	381
dryer, sand (steel works)	279	duck and sash machines	911	eye, jug	335
dryer, sand (tunnings)	380	duck breeder	264	eye, madder	359
dryer, shales	380	duck maker	719	eye, master	381
dryer, silk	158	duck carter	719	eye, operative	381
dryer, slurry (cement)	098	duck filler	049	eye, pearl	618
dryer, spirits	143	duck man	043	eye (photographic plates, &c.)	683
dryer, spinn	380	duck rider	362	eye, piece	381
dryer (textile)	380	duck	619	eye (radia, grasses, &c.)	683
dryer, tin	398	duck finisher	344	eye (re-dyeing)	929
dryer, tin cylinder	485	dumb jockey maker	380	eye, skin	381
dryer, tobacco	559	dumper	380	eye, skin rug	381
dryer (vulcanised fibre)	398	dumping machine man	419	eye, slab	381
dryer, warp	398	dungaree maker	399	eye, slacking	381
dryer, white	398	duncheon molder	397	eye (textile)	381
dryer, white piece	398	dung boy	397	eye (textile-foreman)	359
dryer, wood (leather dressing)	398	dunger	397	eye, top	381
dryer, wood (textile)	398	dunging machine minder	397	eye, Turkey red	335
dryer, yarn (flax and hemp)	398	dupe knitter	397	eye, vat (leather)	381
dryer, yarn (knapping)	398	dupe machinist	397	eye, vat (textile)	381
dryer, yarn (printing)	398	dupe maker	397	eye, velvet	359
dryerman (cattle cake)	449	duplexing machine assem- bler	429	eye, warp	381
dryerman, left (board making)	519	duplexer	119	eye, wood	598
dryerman, left (hand-made paper)	518	dust carrier	713	eye, yarn	381
dryerman (power making)	319	dust contractor	561	eye and cleaner	775
dryerman (salt)	099	dust damper	338	eye's labourer (hat)	429
dryer man (textiles)	398	dust destructor fireman	911	eye's labourer (leather)	339
dryerman's assistant	519	dust drawer	338	eye's labourer (textile)	381
dryer-out	319	duster (brushing)	108	eye's shopkeeper	775
dryer's feeder	463	duster, colour	398	eye stainer	381
dryer's helper	398	duster, gold	409	eye tray boy	339
dry fence walker	572	duster, hair	519	eye vat cleaner	429
dry grinder (metal)	227	duster (hats)	409	eye vat watcher	429
dry grinder (vitreous enamel)	362	duster (paper making)	518	eyewood cutter	149
dry hickler, horsehair	056	duster (pottery)	103	eyewood extract maker	148
dry house attendant	056	duster, rug	519	eyewood grinder	148
dry house boy	056	duster (sacks and bags)	279	eyewood liquor boiler	148
dryhouse man (felt)	398	duster (tinbox, canisters, &c.)	429	eyewood miller	018
dry house man (metal mine)	056	duster (tinplate manufacture)	279	eye reeve	018
drying on-board attendant	319	duster, wood (wood pulp)	499	eyer (drainage labourer)	026
drying cylinder man	398	duster, wool	362	eyer, foreman (railway)	561
drying cylinder minder	468	duster girl	429	eyer (mason)	572
drying machine feeder	158	dusterman, esparto grass	519	eyer, whintons	572
drying machine hand	398	dusterman (paper making)	519	eyamide glycerine maker	142
drying machine minder	398	duster-off	104	eyamide maker	143
drying machine minder, cylin- der	398	dust grinder	104	eyamide attendant	639
drying machine minder (finishing)	304	dusting boy	549	eyamide brush maker	619
drying machineist, cloth	384	dusting house man	149	dynamo brush maker, carbon	639
drying machineist, cloth (general)	398	dusting machine attendant	279	dynamo erector	210
drying man, colour	118	dustman (collecting from houses)	729	dynamo filter	210
drying man (sugar refining)	449	dust man (pottery)	119	dynamometer car inspector	708
drying oven attendant (accu- mulator)	619	dust mill hand	119	dynamo minder	808
drying room hand (etinsol)	527	dust mill wheeler	119		
drying room hand (photo- graphy)	527	dust shaker attendant (dax, bemp)	362		
drying room hand (sugar com- fectionery)	449	dust shaker attendant (mill sweeping)	399	earthware baker maker	105
drying room worker	619	dust after	970	earthware bath maker	105
		dust tile maker	105	earthware biscuit brusher	118
		eye boiler (leather dressing)	335	earthware custer	105
		eye boiler (textile)	381		
		eye piece opener	399		
		eye grinder	381		

Ea-Em

	Code Number.		Code Number.		Code Number.
earthenware pipe maker	105	egger and washer	338	electric motor attendant	954
earth stopper	910	egg mixer	449	electric motor bogie driver	701
ear trumpet maker	883	egg packer	449	electric motor man	954
eating house keeper	311	egg picker	449	electric omnibus driver	720
ebban	741	egg sifter	449	electric plant attendant	954
ebonite and vulcanite worker	658	egg sorter	449	electric primer (ammunition)	149
ebonite cutter-out	659	egg timer	449	electric pump attendant	950
ebonite finisher	656	egg-washer	419	electric pump man	950
ebonite forer	652	eggdowns worker	339	electric ram driver	706
ebonite maker	652	egretor fitter	239	electric roller machine minder	188
ebonite maker-up	652	egretor maker	239	electric signal fireman	311
ebonite mixer	652	elastic band maker	658	electric signalman	311
ebonite moulder	652	elastic brace creaser	426	electric sign fixer	318
ebonite turner	652	elastic brace maker	419	electric sign maker	318
ebonite vulcaniser	651	elastic creaser	374	electric tinser	279
ebonite worker	650	elastic hosiery finisher	374	electric track labourer (rail- way)	577
ebonite worker (mixing, mould- ing)	652	elastic knoop knitter	374	electric train conductor	702
ebony cutter	481	elastic loom builder	610	electric train guard	702
ebony handle maker	498	elastic rubber winder	208	electric tramcar driver	722
eccentric dancer	893	elastic spring fitter	414	electric transporter driver	954
ecological iron worker	226	elastic thread warper	387	electric truck driver	785
ecological sculptor	374	elastic thread winder	387	electric truck operator	785
ecological wood carver	415	electrical and telegraph super- intendent	700	electric van driver	726
economiser cleaner	952	electrical apparatus tester (G.P.O.)	300	electric welder	243
economiser scaler	952	electrical drill	372	electric welder and cutter	249
economiser scurfer	952	electrical engineer	305	electrification ganger	581
e.o. worker	143	electrical engineering fitter	305	electro-brasser (screws)	278
edge blacker	429	electrical fitter (engineering)	316	electrode maker	639
edge cutter	252	electrical fitter (G.P.O.)	316	electro depositor	252
edge fudge wheeler	429	electrical fitter (G.P.O.)	316	electrolytic chlorine worker	143
edge glider (bookbinder's)	538	electrical fittings maker	105	electro monner	285
edge glider, card	649	electrical furniture maker	105	electro plaque depositor	282
edge grinder	429	electrical inspector	308	electro-plater	282
edge inker	639	electrical instructor, technical (fireways)	729	electro-plating assistant	299
edge minder (floor cloth)	384	electrical instrument maker	309	electrotypist	324
edge minder (textile finishing)	429	electrical instrument maker	309	electrotypist's assistant	324
edge paper	429	electrical mechanic	309	elevator assembler	474
edge, black (glasses)	334	electrical superintendent, resi- dent	305	elevator assembly (cement, etc. works)	099
edge, blank	105	electrical superintendent, resi- dent	305	elevator attendant, coal (gas works and electricity supply)	699
edge, clear-ware	419	electrical ware maker	105	elevator attendant, grain	950
edge (clothing)	419	electrical wire drawer	288	elevator attendant (textile mill)	757
edge (cups)	419	electric wireman	311	elevator attendant, wet char	950
edge, gilt	538	electric battery maker	318	elevator engine man	849
edge (gramophone record)	449	electric bell fitter	309	elevator man, beam (gas works)	699
edge, metal	358	electric bell maker	309	elevator man (coke works)	089
edge, object glass	133	electric bulb blower	124	elevator man (four mill)	699
edge (optical lens)	133	electric cable laying labourer	311	elevator man (four mill)	449
edge, rough	133	electric car brakeman	722	elocutionist	885
edge (spectacle lens)	133	electric conduit joiner	311	elocutionist	072
edge (textile)	399	electric conveyor driver	954	elocutionist	949
edge (tiles)	105	electric crane driver	950	embalmer	925
edge, tile	105	electric detonator maker	148	embalmer (envelope)	552
edge (tin box)	279	electric driller	231	embalmer (floor cloth, etc.)	639
edge (typewriter ribbons)	358	electric engine attendant	950	embalmer (glass)	126
edge runner	429	electric fan attendant	304	embalmer (hats)	278
edge setter	419	electric furnace maker (chemi- cals)	143	embalmer (jewellery and plate)	283
edge stitcher	238	electric furnaceman (foundry)	182	embalmer (leather dressing)	385
edge tool bander	279	electric handle driver	954	embalmer, leather (bookbind- ing)	532
edge tool cutter-out	279	electrician	311	embalmer (metal)	254
edge tool examiner	278	electrician, assistant	305	embalmer (paper making)	518
edge tool fader	278	electrician, chief	301	embalmer, paper (stationery)	552
edge tool fitter	278	electrician, chief (cable ship)	301	embalmer (stationery)	394
edge tool forge	190	electrician, chief (film pro- ducing)	305	embalmer (stationery)	552
edge tool forger's striker	190	electrician (factory)	305	embalmer, sword hilt	278
edge tool grinder	237	electrician, house	311	embalmer (wallpaper)	552
edge tool gripper	279	electrician-in-chief (cable ship)	300	embalmer (wood)	635
edge tool handler	279	electrician (Post Office)	305	embalmer to the blind	558
edge tool hardener	220	electrician (rolling stock)	305	embalming feeder	639
edge tool japaner	241	electrician (sea-going)	749	embalming machine attendant	485
edge tool jobbing grinder	237	electrician (theatrical, music halls, etc.)	305	embalming machinist, wood	485
edge tool machineman	278	electrician (tramways)	305	embalming machine	449
edge tool peeler	282	electrician's assistant	319	embroiderer	407
edge tool plaster (nickel)	190	electrician's assistant (film producing)	319	embroiderer, appliqué	407
edge tool plaster (smith)	238	electrician's labourer	319	embroiderer, gold	407
edge tool roller	176	electrician's mate	319	embroiderer, machine (lace)	378
edge tool setter	278	electrician's maker	309	embroiderer, machine (lace)	378
edge tool setter (grinder)	190	electric indicator maker	309	embroiderer, machine (lace)	378
edge tool stamper	190	electric jointer (electric cables)	311	embroiderer, military	407
edge tool stamper, heavy	190	electric light attendant (elec- tricity supply)	699	embroiderer, silver	407
edge tool striker	190	electric light attendant (main- tenance)	311	embroiderer, Swiss	407
edge trimmer	429	electric light circuitman	311	embroiderer	407
edgeware maker	279	electric light fitter	311	embroidery book maker	278
edge worker (scientific instru- ments)	278	electric light man (sea going)	749		
editor, film	852	electric meter assembler	309		
educational agent	090	electric meter fitter	309		
ed cutler	911	electric meter repairer	309		
ed shoeman	911	electric meter tester	308		
ed shop keeper	911				
edf man, crude glycerine	149				
edf man (glycerine recovery)	149				
edf purifier	149				
egg blender	474				
egg box maker	474				
egg breaker	449				
egg candler	449				
egg case maker	474				

Code Number.		Code Number.		Code Number.	
embroidery machinist ...	407	enameled paint filler ...	159	engine driver, stationary ...	950
embroidery maker ...	407	enameled paint maker ...	162	engine driver (threshing machine) ...	021
embroidery maker, lace ...	376	enameled paint packer ...	159	engine driver, traction (not agricultural) ...	721
embroidery mender ...	379	enameled paintress ...	108	engine driver, traction (threshing machine) ...	021
embroidery printer ...	428	enamelite setter ...	571	engine driver, winding ...	950
embroidery weaver ...	370	enamelite tile filler ...	571	engine driver's assistant ...	950
enamel setter ...	284	enamelite tile maker ...	105	engineer (acetylene gas plant) ...	950
emergency man (tramways) ...	729	enamelite ware maker ...	105	engineer (aerated water factory) ...	453
emery belt rubber ...	236	enamel cupper (cables) ...	319	engineer, assistant (G.P.O.) ...	301
emery bobber ...	237	end dresser ...	279	engineer, assistant resident (electricity supply) ...	690
emery cloth maker ...	098	ender, axle ...	200	engineer, assistant staff (G.P.O.) ...	300
emery crusher ...	099	ender, back (flax, jute) ...	399	engineer, assistant station (electricity supply) ...	690
emery grinder and washer ...	099	ender, card (flax, hemp and jute) ...	363	engineer, assistant superintendent (G.P.O.) ...	300
emery grinder (for cloth) ...	099	ender, cutter machine head ...	363	engineer, assistant (waterworks) ...	690
emery grinder, machine knife ...	217	ender, cutter machine tail ...	394	engineer, chief (ship) ...	734
emery paper maker ...	098	ender, drawing (jute) ...	363	engineer, chief (electricity supply) ...	690
emery roller coverer ...	098	ender, drawing (wood combination) ...	363	engineer, chief assistant (electricity supply) ...	690
emery steel polisher (cycles) ...	237	ender, finisher card ...	363	engineer, chief assistant (waterworks) ...	690
emery washer ...	099	ender (flax) ...	362	engineer, chief (electricity supply) ...	690
emery wheel buffer ...	338	ender (flax spinning) ...	362	engineer, chief (electricity supply) ...	690
emery wheeler (foundry) ...	237	ender, head ...	334	engineer, chief (electricity supply) ...	690
emery wheeler (hides and skins) ...	334	ender, head ...	334	engineer, chief (electricity supply) ...	690
emery wheeler (polts) ...	338	ender, rope ...	043	engineer, chief (electricity supply) ...	690
emery wheel fireman ...	092	ender (screws) ...	279	engineer, chief (electricity supply) ...	690
emery wheel kiln man ...	092	ender, snipper ...	399	engineer, chief (electricity supply) ...	690
emery wheel maker ...	098	ender, snipping ...	399	engineer, chief (electricity supply) ...	690
emery wheel mixer ...	098	ender, softener ...	399	engineer, chief (electricity supply) ...	690
emery wheel turner ...	098	ender, tail ...	384	engineer, chief (electricity supply) ...	690
emery wheel worker ...	098	ender, velvet ...	379	engineer, chief (electricity supply) ...	690
emigration agent ...	771	ender, velvet, Indian, etc.) ...	379	engineer, chief (electricity supply) ...	690
employment agent ...	771	ender-on ...	379	engineer, chief (electricity supply) ...	690
employment bureau manager ...	771	ender-up (bolts) ...	279	engineer, chief (electricity supply) ...	690
emptier, barge ...	745	ender-up (textile machinery) ...	496	engineer, chief (electricity supply) ...	690
emptier, biscuit ...	119	end finisher (cables) ...	319	engineer, chief (electricity supply) ...	690
emptier, boat ...	745	end finisher (cables) ...	319	engineer, chief (electricity supply) ...	690
emptier, box (lard room) ...	399	ending machinist (bolts) ...	279	engineer, chief (electricity supply) ...	690
emptier, care ...	119	end lipper ...	365	engineer, chief (electricity supply) ...	690
emptier, china biscuit ...	119	endless chain haulage hand ...	043	engineer, chief (electricity supply) ...	690
emptier, duff ...	719	endless rope boy ...	043	engineer, chief (electricity supply) ...	690
emptier (moulding box) ...	185	endless rope engine driver ...	950	engineer, chief (electricity supply) ...	690
emptier, press ...	104	endless rope lad (coal mine) ...	043	engineer, chief (electricity supply) ...	690
emptier, rubbish (steel works) ...	279	endless rope lad (metal mine) ...	054	engineer, chief (electricity supply) ...	690
emptier, tray ...	145	endless rope man ...	043	engineer, chief (electricity supply) ...	690
emulsion coater ...	688	endless rope minder ...	043	engineer, chief (electricity supply) ...	690
emulsion maker ...	145	endless rope stamp maker (metal) ...	690	engineer, chief (electricity supply) ...	690
emulsion meller ...	145	endless rope stamp maker (rubber) ...	230	engineer, chief (electricity supply) ...	690
emulsion washer ...	145	endless rope stamp maker (rubber) ...	230	engineer, chief (electricity supply) ...	690
enamel blower ...	152	endless rope stamp maker (rubber) ...	230	engineer, chief (electricity supply) ...	690
enamel colour mixer ...	152	endless rope stamp maker (rubber) ...	230	engineer, chief (electricity supply) ...	690
enamel colour worker ...	152	endless rope stamp maker (rubber) ...	230	engineer, chief (electricity supply) ...	690
enamel dial maker ...	324	endless rope stamp maker (rubber) ...	230	engineer, chief (electricity supply) ...	690
enamel goods printer ...	529	endless rope stamp maker (rubber) ...	230	engineer, chief (electricity supply) ...	690
enamel grinder ...	152	endless rope stamp maker (rubber) ...	230	engineer, chief (electricity supply) ...	690
enamel kiln drawer (pottery) ...	103	endless rope stamp maker (rubber) ...	230	engineer, chief (electricity supply) ...	690
enamel kiln fireman ...	103	endless rope stamp maker (rubber) ...	230	engineer, chief (electricity supply) ...	690
enamel kilnman ...	103	endless rope stamp maker (rubber) ...	230	engineer, chief (electricity supply) ...	690
enamel kiln placer ...	103	endless rope stamp maker (rubber) ...	230	engineer, chief (electricity supply) ...	690
enamelised brick maker ...	103	endless rope stamp maker (rubber) ...	230	engineer, chief (electricity supply) ...	690
enamelised sign ...	279	endless rope stamp maker (rubber) ...	230	engineer, chief (electricity supply) ...	690
enamelised slate blacker-in ...	352	endless rope stamp maker (rubber) ...	230	engineer, chief (electricity supply) ...	690
enamelised slate sander ...	352	endless rope stamp maker (rubber) ...	230	engineer, chief (electricity supply) ...	690
enamelised slate Sawyer ...	576	endless rope stamp maker (rubber) ...	230	engineer, chief (electricity supply) ...	690
enameller, advertisement sign ...	241	endless rope stamp maker (rubber) ...	230	engineer, chief (electricity supply) ...	690
enameller, black ...	241	endless rope stamp maker (rubber) ...	230	engineer, chief (electricity supply) ...	690
enameller (cables) ...	319	endless rope stamp maker (rubber) ...	230	engineer, chief (electricity supply) ...	690
enameller (card, pasteboard or paper) ...	510	endless rope stamp maker (rubber) ...	230	engineer, chief (electricity supply) ...	690
enameller (chemical glassware) ...	139	endless rope stamp maker (rubber) ...	230	engineer, chief (electricity supply) ...	690
enameller, cycle ...	241	endless rope stamp maker (rubber) ...	230	engineer, chief (electricity supply) ...	690
enameller, dial ...	324	endless rope stamp maker (rubber) ...	230	engineer, chief (electricity supply) ...	690
enameller, furniture ...	592	endless rope stamp maker (rubber) ...	230	engineer, chief (electricity supply) ...	690
enameller (glass) ...	138	endless rope stamp maker (rubber) ...	230	engineer, chief (electricity supply) ...	690
enameller (gold, silver, etc.) ...	296	endless rope stamp maker (rubber) ...	230	engineer, chief (electricity supply) ...	690
enameller, hallo ...	241	endless rope stamp maker (rubber) ...	230	engineer, chief (electricity supply) ...	690
enameller, jeweller's ...	298	endless rope stamp maker (rubber) ...	230	engineer, chief (electricity supply) ...	690
enameller, lamp lustre ...	158	endless rope stamp maker (rubber) ...	230	engineer, chief (electricity supply) ...	690
enameller, leather ...	335	endless rope stamp maker (rubber) ...	230	engineer, chief (electricity supply) ...	690
enameller (leather dressing) ...	335	endless rope stamp maker (rubber) ...	230	engineer, chief (electricity supply) ...	690
enameller, mezzocham ...	688	endless rope stamp maker (rubber) ...	230	engineer, chief (electricity supply) ...	690
enameller (metal) ...	241	endless rope stamp maker (rubber) ...	230	engineer, chief (electricity supply) ...	690
enameller (not stored enamel) ...	592	endless rope stamp maker (rubber) ...	230	engineer, chief (electricity supply) ...	690
enameller, photographic ...	527	endless rope stamp maker (rubber) ...	230	engineer, chief (electricity supply) ...	690
enameller (photographic paper—calendering) ...	510	endless rope stamp maker (rubber) ...	230	engineer, chief (electricity supply) ...	690
enameller (pottery) ...	103	endless rope stamp maker (rubber) ...	230	engineer, chief (electricity supply) ...	690
enameller, plate ...	592	endless rope stamp maker (rubber) ...	230	engineer, chief (electricity supply) ...	690
enameller (wallpaper) ...	536	endless rope stamp maker (rubber) ...	230	engineer, chief (electricity supply) ...	690
enameller, wood ...	582	endless rope stamp maker (rubber) ...	230	engineer, chief (electricity supply) ...	690
enameller's polisher ...	241	endless rope stamp maker (rubber) ...	230	engineer, chief (electricity supply) ...	690
enameller's storer ...	241	endless rope stamp maker (rubber) ...	230	engineer, chief (electricity supply) ...	690
enamel maker (ceramic) ...	152	endless rope stamp maker (rubber) ...	230	engineer, chief (electricity supply) ...	690
enamel maker (bellows-ware) ...	152	endless rope stamp maker (rubber) ...	230	engineer, chief (electricity supply) ...	690
enamel maker (point) ...	152	endless rope stamp maker (rubber) ...	230	engineer, chief (electricity supply) ...	690
enamel maker (pottery) ...	103	endless rope stamp maker (rubber) ...	230	engineer, chief (electricity supply) ...	690
enamel maker, vitreous ...	143	endless rope stamp maker (rubber) ...	230	engineer, chief (electricity supply) ...	690
enamel mixer ...	152	endless rope stamp maker (rubber) ...	230	engineer, chief (electricity supply) ...	690
enamel painter ...	106	endless rope stamp maker (rubber) ...	230	engineer, chief (electricity supply) ...	690

	Code Number.		Code Number.		Code Number.
engineer, resident (water works) ...	680	engine man, guillotine (roll- ing mill) ...	279	engraver, coach ...	278
engineer, roofing ...	226	engine man, hauling ...	950	engraver, copper (process en- graving) ...	278
engineer, sales (electricity) ...	680	engine man, hoist ...	950	engraver, copper roller ...	230
engineer, sales (engineering firm) ...	770	engine man, hydraulic ...	950	engraver, cutlery ...	213
engineer, scribbling (wool) ...	353	engine man, incline ...	950	engraver, dial ...	233
engineer, second (ship) ...	734	engine man, lift ...	950	engraver, die ...	230
engineer, service (electricity supply) ...	690	engine man, mill ...	950	engraver, glass ...	126
engineer, shafting ...	244	engine man, on farm ...	021	engraver, gold measuring ...	293
engineer, shaft (electricity supply) ...	681	engine man, power ...	950	engraver, gold and silver ...	293
engineer (ship) ...	734	engine man, pump ...	950	engraver, half-tone ...	526
engineer, staff (G.P.O.) ...	303	engine man, pumping ...	950	engraver (hand tooling) ...	526
engineer, station (electricity supply) ...	690	engine man (railway) ...	701	engraver (hand-brass plate, &c.) ...	278
engineer (stationary engine) ...	950	engine man, ram ...	085	engraver (hand—copper roller) ...	257
engineer, steam ...	950	engine man, saw (iron and steel rolling) ...	279	engraver, hand (copper roller) ...	257
engineer, stoker ...	244	engine man, screen ...	850	engraver, hand (mathematical instruments) ...	322
engineer, stoker (laundry) ...	950	engine man, shed ...	701	engraver, hand (copper roller) ...	257
engineer, street lighting ...	681	engine man (ship) ...	734	engraver, ivory ...	618
engineer, substation ...	691	engine man, skip ...	950	engraver, machine (mathe- matical instruments) ...	322
engineer, superintendent (dock) ...	731	engine man, slag ladle ...	950	engraver, machine (metal plate) ...	278
engineer, superintendent (shipping company) ...	739	engine man, stationary engine) ...	950	engraver, machine (precious metals) ...	283
engineer, superintending (G.P.O.) ...	303	engine man, turbine ...	950	engraver, machine (textile printing) ...	257
engineer, superintending (waterworks) ...	690	engine man, ventilating ...	950	engraver, machine (textile printing) ...	257
engineer, third (ship) ...	734	engine man, washer ...	950	engraver, marble ...	574
engineer, Tully House ...	244	engine man (ship) ...	734	engraver, marquetry ...	473
engineer, ventilating ...	244	engine man, winding ...	950	engraver, mathematical in- strument ...	322
engineer, wash house ...	244	engine mechanic ...	245	engraver, monumental ...	574
engineer, water (waterworks) ...	690	engine millwright ...	212	engraver, monumental letter ...	574
engineer (waterworks) ...	690	engine moulder ...	950	engraver, monumental marble ...	574
engineer, wireless ...	305/7	engine oil maker ...	154	engraver (pantograph) ...	257
engineer, woolen ...	950	engine oil man ...	158	engraver, pantograph ...	257
engineer, works (electricity) ...	690	engine oil refiner ...	158	engraver, parquetry ...	473
engineer, works lighting (elec- tricity supply) ...	691	engine packing maker ...	698	engraver, photo ...	526
engineer, yard ...	244	engine polisher ...	592	engraver, photography ...	526
engineer-in-charge ...	691	engine picker ...	519	engraver (photography) ...	526
engineering fitter ...	210	engine plane and sliding attendant ...	371	engraver, photo (hand tool- ing) ...	278
engineering fitter, electrical ...	305	engine plane man ...	954	engraver, plate (metal) ...	257
engineering superintendent, marine ...	739	engine road corporal ...	041	engraver, plate (precious metals) ...	283
engineer's boy (ship) ...	737	engine roadman ...	044	engraver (precious metals) ...	283
engineer's draughtsman ...	932	engine room attendant, oil ...	950	engraver, process ...	526
engineer's fitter, sanitary ...	210	engine room cleaner ...	970	engraver, process (hand tool- ing) ...	526
engineer's labourer ...	246	engine room cleaner (elec- tricity supply) ...	699	engraver, punch ...	257
engineer's mess room steward ...	737	engine room foreman (elec- tricity supply) ...	692	engraver, roller ...	230
engineer's pattern maker ...	480	engine room stock-keeper (ship) ...	737	engraver, seal ...	230
engineer's photographic paper maker ...	688	engine sander ...	947	engraver, stamp mark ...	230
engineer's photo printer ...	548	engine shop machine fitter ...	701	engraver, stone ...	574
engineer's steward ...	737	engine shunter ...	701	engraver, thermometer ...	126
engineer's stock-keeper (ship) ...	737	engine sizer ...	518	engraver, tombstone ...	574
engineer's tool maker ...	265	engine smith ...	190	engraver, transfer ...	526
engineer superintendent (aviation) ...	750	engine stoker (locomotive) ...	701	engraver, vegetable ivory ...	618
engineer superintendent, assistant (aviation) ...	750	engine tender ...	950	engraver, wax ...	526
engine fitter ...	363	engine tender, blowing (cotton mill) ...	362	engraver, etcher ...	233
engine fireman (boiler) ...	701	engine tender, earding ...	953	engraver's block maker (wood) ...	496
engine fireman (hot loco.) ...	951	engine tender, hauling ...	950	engraver's mechanist ...	257
engine fitter ...	210	engine tender (stationary engine) ...	950	engraver's painter ...	390
engine fitter, carding ...	210	engine tester (bench) ...	278	engraver's polisher ...	238
engine fitter, gas ...	210	engine tester (road) ...	278	engraver's turner ...	290
engine fitter, gas and oil ...	210	engine tool examiner ...	709	engraving machine worker ...	278
engine fitter, marine ...	210	engine tool fitter ...	211	engraving, law ...	939
engine fitter, motor ...	210	engine tool smith ...	211	engraving clerk ...	939
engine fitter, motor cycle ...	210	engine tool turner ...	210	engraver, roller ...	230
engine fitter, oil ...	210	engine trimmer ...	279	engraver, seal ...	230
engine fitter, railway ...	210	engine tuber (boiler) ...	222	engraver, stamp mark ...	230
engine head tender ...	363	engine tuber (locomotive) ...	210	engraver, stone ...	574
engine liner ...	210	engine turner, case ...	233	engraver, thermometer ...	126
engine man, apparatus ...	950	engine turner (metal) ...	209	engraver, tombstone ...	574
engine man, assistant blast (iron and steel) ...	950	engine turner (precious metals) ...	263	engraver, transfer ...	526
engine man, ball ...	950	engine turner, rib (rides) ...	209	engraver, vegetable ivory ...	618
engine man, blast ...	950	engine turner, rose ...	209	engraver, wax ...	526
engine man, bleach ...	518	engine turner (turntable) ...	209	engraver's block maker (wood) ...	496
engine man, blow (coal mines) ...	950	engine weigher ...	279	engraver's mechanist ...	257
engine man, blowing (cotton mill) ...	362	engine wheeler ...	279	engraver's painter ...	390
engine man, coal breaker ...	950	engine winder (silk) ...	671	engraver's polisher ...	238
engine man, crane ...	950	engine winder (stationary engine) ...	950	engraver's turner ...	290
engine man, crusher ...	950	engine worker ...	950	engraving machine worker ...	278
engine man, dip ...	950	engine-wright (coal mine) ...	041	engraving, law ...	939
engine man, donkey ...	950	engine-wright (metal mine) ...	051	engraving clerk ...	939
engine man, dock ...	950	engraver (architectural, monu- mental) ...	574	engraver, roller ...	230
engine man, elevator ...	950	engraver, bell ...	278	engraver, seal ...	230
engine man, fan ...	950	engraver, bookbinder's tool ...	230	engraver, stamp mark ...	230
engine man, gentry ...	950	engraver, brass ...	278	engraver, stone ...	574
		engraver, calico ...	257	engraver, thermometer ...	126
		engraver, case ...	263	engraver, tombstone ...	574

Code Number.		Code Number.		Code Number.	
envelope straightener ...	359	envis carpenter ...	474	examiner (laundry) ...	518
envelope worker ...	419	estate constable ...	329	examiner (leather) ...	336
envelope maker ...	407	estate drainer ...	326	examiner, light and bell	
epson salts maker ...	143	estate factor ...	010	(tramways) ...	729
equalizer (machine printing)...	527	estate laborer ...	378	examiner (lines and temp.)	359
equestrian ...	899	estate manager ...	796	examiner, load ...	709
equestrian artist ...	899	estate steward ...	010	examiner, locker and grain ...	842
equilibrant ...	899	estimating clerk ...	933	examiner (metal mine) ...	551
equipment porter ...	706	estimator, removal ...	933	examiner, model map ...	548
eraser maker ...	809	etcher, color ...	526	examiner, motor (electric rail- ways) ...	308
erector, accumulator ...	302	etcher, cutlery ...	278	examiner, motor (tramways)	
erector, aeroplans ...	558	etcher (laborer, saws, &c.)	526	depth ...	714
erector, agricultural machinery		etcher, deep ...	283	examiner, motor (tramways)	
erector, aurip ...	210	etcher, engraver ...	526	repair shop ...	308
erector, aurip body ...	210	etcher, fine ...	126	examiner (music rolls) ...	553
erector, beam ...	222	etcher (glass) ...	108	examiner (net) ...	379
erector, body (aeroplanes) ...	474	etcher (glassware) ...	526	examiner, night ...	041
erector, chassis ...	210	etcher, half-tone ...	203	examiner, oil pad (railway)	
erector, chassis frame ...	210	etcher (jewellery and plate)		examiner (other non-metall- ferrous mines) ...	071
erector (constructional works)		etcher, line ...	526	examiner, paper ...	688
erector, cultivator ...	210	etcher, photogravure ...	526	examiner (paper tubes) ...	688
erector, dynamo ...	210	etcher, process block ...	526	examiner (perforators) ...	688
erector (electrical filter) ...	365	etcher (process engraving) ...	526	examiner (perfumery) ...	146
erector, engine ...	210	etcher, process file ...	526	examiner (photographic plates, etc.) ...	688
erector (engine, machine, &c.)		etcher, roller (textile print- ing) ...	257	examiner, piece ...	379
erector, lens ...	474	etcher, rough ...	526	examiner, pier ticket ...	741
erector, frame (locomotive) ...	210	etcher, rough ...	526	examiner, piece ...	741
erector, frame (shipbuilding) ...	222	etcher (textile printing) ...	257	examiner, piece ...	741
erector, fusage ...	474	etcher, three color process		examiner, plough ...	714
erector, galvanised roofing ...	526	etcher, fine ...	126	examiner, P.O. Engineering Dept.) ...	308
erector, gas holder ...	226	etcher, three color process		examiner, policy (insurance) ...	939
erector, girder ...	226	etcher, three color process		examiner, post card ...	558
erector, gramophone ...	648	etcher, three color process		examiner (printer's) ...	321
erector, hoarding ...	474	etcher, three color process		examiner, ring (textile ma- chinery) ...	278
erector, horse hoe ...	210	etcher, three color process		examiner (rubber) ...	608
erector, iron work ...	226	etcher, three color process		examiner (rubber boots and shoes) ...	609
erector, lift ...	210	etcher, three color process		examiner, sack ...	942
erector, locomotive ...	210	etcher, three color process		examiner, semi-fuse ...	146
erector, loom ...	210	etcher, three color process		examiner, shaft ...	041
erector, machine (metal) ...	474	etcher, three color process		examiner, shoe (electric rail- way) ...	709
erector, machine (wood) ...	474	etcher, three color process		examiner, shoe (leather) ...	429
erector, machine (generators, do.) ...	989	etcher, three color process		examiner (slate, stone, etc.) ...	071
erector, motor (rolling stock)		etcher, three color process		examiner, spring (scales)	
erector, motor (self-propelled road vehicles—not steam) ...	210	etcher, three color process		examiner, stamp ...	558
erector, organ ...	648	etcher, three color process		examiner, state ...	278
erector, plane ...	474	etcher, three color process		examiner (steel pens) ...	558
erector, printing machinery ...	210	etcher, three color process		examiner, stencil paper	
erector, pump ...	210	etcher, three color process		examiner, ticket (railway)	
erector, roof ...	226	etcher, three color process		examiner, ticket (tramways)	
erector, screen ...	210	etcher, three color process		examiner, tool ...	709
erector, shooter ...	210	etcher, three color process		examiner, travelling ticket ...	705
erector (steel) ...	226	etcher, three color process		examiner, trolley (tramways)	705
erector, steel folder ...	210	etcher, three color process		examiner, tyre ...	078
erector, steel girder ...	226	etcher, three color process		examiner (wheels) ...	608
erector, switchboard ...	318	etcher, three color process		examiner, valve (tyres) ...	608
erector, tent ...	363	etcher, three color process		examiner, wagon (railway)	658
erector, vat ...	477	etcher, three color process		examiner (watch, etc.) ...	323
erector, wagon (builder) ...	658	etcher, three color process		examiner, wheel ...	709
erector, wagon (fitter) ...	210	etcher, three color process		examiner, wheel disc (rolling mill) ...	278
erector, weighbridge ...	309	etcher, three color process		examiner, wheel (railway wagon works) ...	278
erector (weighing machine) ...	309	etcher, three color process		examiner, wire ...	308
erector, weighing machine ...	309	etcher, three color process		examiner, workmen's ...	041
erector, well machinery ...	210	etcher, three color process		examiner, yarn ...	379
erector, wing (aeroplanes) ...	474	etcher, three color process		examiner of tube ...	041
erector's labourer ...	213	etcher, three color process		examining machine ...	308
errand boy ...	758	etcher, three color process		excavator (builder's) ...	544
errand boy, cycle ...	459	etcher, three color process		excavator (clear, marl pit) ...	574
errand girl (clothing trades) ...	758	etcher, three color process		excavator (contractor's) ...	581
errand girl (messenger) ...	758	etcher, three color process		excavator (ironstone quarry)	
escapement maker, chrono- meter ...	324	etcher, three color process		excavator (stone mine or quarry) ...	072
escapement maker, lever ...	324	etcher, three color process		excavator, tank (copper ex- traction) ...	279
escapement maker (watch, clock) ...	324	etcher, three color process		excess collector ...	705
escapement machine ...	324	etcher, three color process		excess inspector, travelling ...	705
escapement pitcher ...	324	etcher, three color process		excess luggage clerk (railway)	706
escape wheel cutter ...	324	etcher, three color process		excess luggage collector ...	706
escutcheon lock maker ...	243	etcher, three color process		excess luggage foreman ...	706
esparto boiler ...	518	etcher, three color process		excess luggage labourer ...	706
esparto grass boiler ...	518	etcher, three color process		excess luggage man ...	706
esparto grass boilerman ...	518	etcher, three color process		excess luggage weigher ...	706
esparto grass cutter ...	518	etcher, three color process		excess luggage weigher, dis- tributor ...	706
esparto grass dry picker ...	518	etcher, three color process		excess mail, parcel ...	706
esparto grass dufferman ...	518	etcher, three color process		excess man (parcel) ...	706
esparto grass potcherman ...	518	etcher, three color process		excessman (ticket collector)	
esparto grass shaker ...	518	etcher, three color process		excess porter ...	706
esparto grass sorter ...	518	etcher, three color process		exchange attendant (Post Office) ...	756
esparto grass sorting machine		etcher, three color process		exchange broker ...	799
essence distiller ...	142	etcher, three color process		executive engineer (G.P.O.) ...	301
essential oil distiller ...	142	etcher, three color process		exercise boy ...	725
establishment officer (dock)		etcher, three color process			
estate agent ...	796	etcher, three color process			
estate agent, colliery ...	041	etcher, three color process			
estate agent and surveyor ...	796	etcher, three color process			
estate balliff ...	010	etcher, three color process			

	Code Number.		Code Number.		Code Number.
exhauster boy	086	face, bolt	200	fan turner	047
exhauster dryer	950	face (corrugated board)	513	fanwright	210
exhauster (electric lamp)	318	face (door)	233	fan balist	015
exhauster engine driver	950	face (rustica finishing)	384	fan boy	300
exhauster man (gasworks)	950	face (lath worker)	200	fan carpenter	014
exhibition stand fitter	474	face, nut	200	fan cleaner	339
exotic gardener	013	face, nut and bolt	200	fanter	011
expanded metal fixer	388	face, pipe	200	fanter, baby	312
expander, boiler pipe	222	face, steel	524	fanter, bulb	013
expander, boiler tube	222	face (stone dressing)	512	fanter, cattle	011
expander (sheet metal)	222	face, wood	513	fanter, chicken	011
expander (tube)	273	face and backer	513	fanter, dairy	011
expander, tube	273	face writer	594	fanter, powder	013
expanding bracket maker	294	facing brick maker	102	fanter, fruit	011
expert, advertising	779	facing machinist	200	fanter, game	011
expert, billposting	779	facsimilist	528	fanter, horse	011
expert, code	789	factor, boot and shoe	770	fanter, poultry	011
expert, systems	775	factor (commission merchant)	771	fanter, sheep	011
explosive filler	143	factor, estate	770	fanter, stock	011
explosives man	941	factor (wholesale dealing)	770	fanter, stud	011
explosive worker	148	factory furnisher	770	fanter of tools	729
exporter	770	factory hand (diamond tools)	689	fanter's apprentice	014
export packer	949	factory hand (sports goods)	688	fanter's mechanic	245
extract binder	333	faggoter (metal trades)	279	fan hand (fruit growing)	013
extract maker, dyewood	143	faggoter, wood	489	fan labourer	024
extract maker, herbs	453	faggot maker (metal)	279	fan lad	024
extract maker, hop	453	faggot maker (wood)	499	fan manager	015
extract maker, kelp	143	faience and mosaic fixer	599	fan pupil	011
extractor, ammoniacal liquor	696	faience tile maker	195	fan servant	024
extractor, benzol	142	faience worker	571	fan steward	015
extractor, copper	143	fairer	662	farrier	190
extractor (copper, wet process)	143	fair stitcher	414	farrier's mate	279
extractor, cydrene	950	faler-out, button	689	farber, edge tool	213
extractor, grease (paraffin and oils)	330	faller drill	200	farber (gold blade)	279
extractor, grease (woollen mill)	396	faller finisher	273	farber, bone brush	618
extractor, hydro	149	faller, motor	273	farber, brush (celluloid)	618
extractor, indigo	148	faller, timber	016	farber, xylene brush	618
extractor (metal)	279	fall maker	473	fastener (cap)	429
extractor, oil (hydro extractor)	279	fall rider	044	fastener, clip	429
extractor, oil (seed crushing)	158	fan attendant, electric	954	fastener (coal mine)	043
extractor, potash	143	fan attendant (engine attendant)	950	fastener, corf (coarse)	493
extractor, slump	027	fan attendant (mineral oil refining)	143	fastener, spring	496
extractor, tar	950	fan boy	047	fastener, tub	043
extractor, vegetable dye	148	fancier (bird, dog, &c.)	770	fastener, wire	316
extractor, wool	381	fancier (celluloid)	619	fastener fixer	429
extractor (wood carbonising)	351	fancy basket maker	472	fastening riveter (gloves)	429
extractor (wooden mill)	156	fancy bead worker	407	fastener	335
extractor man (grease)	156	fancy box maker	496	fat boy (coal mine)	047
extractor man (iron and steel tubes)	279	fancy box stamper	552	fat boy (quarry)	074
extra ganger	581	fancy cabinet maker	473	fat collector	719
extra piecer	385	fancy cause	473	fat cutter	159
extruder	002	fancy cord maker	266	fat grader	158
eye filer (needles)	233	fancy cord apinner	386	fat lad (coal mine)	054
eye frame maker	276	fancy cord twister	386	fat lad (metal mine)	047
eyelid hole maker	429	fancy doubler	356	fat lad (quarry)	074
eyelid holer	609	fancy feather sorter	639	fat maker, foreman	151
eyelid machinist (paper goods)	559	fancy finisher	630	fat maker (grease)	159
eyelid machinist (printing)	549	fancy hair blower	396	fat melter, foreman	151
eyelid maker	254	fancy hair wagger	396	fat melter (grease)	159
eyelidter (boots)	429	fancy hair worker	396	fat oil mixer (soap making)	159
eyelidter (biscuits)	429	fancy homery milliner	419	fat oil refiner	159
eyelidter (clothing)	429	fancy jeweller	296	fat purifier (grease)	159
eyelidter (corsets)	429	fancy lace maker	376	fat purifier (soap)	159
eyelidter (felt hats)	429	fancy lace mender	376	fat settler	159
eyelidter, halter	344	fancy lace twister	376	fatstener, chicken	039
eyelidter, headstall	344	fancy lace worker	376	fatstener	047
eyelidter (hats, tarpaulins, &c.)	429	fancy leather goods maker	348	fatty acid distiller	149
eye maker, artificial	124	fancy leather goods worker	348	fatty acid worker	149
eye maker (needles)	254	fancy leather worker	348	fat washer and chiller	449
eye maker (pianos)	279	fancy needleweaver	407	fault attendant (electricity supply)	699
eye maker, shuttle	105	fancy puncher	429	fault finder (electric cables)	308
eye maker, steel	279	fancy stationer	770	fault hand (electricity supply)	699
eye puncher (needles)	254	fancy tile maker	105	fault man (electricity supply)	699
eyor	254	fancy tin worker	254	faultman, telephony	316
eyo ribber (ferro concrete)	225	fancy trimmer	950	feather beater	502
eye slumper (needles)	254	fan driver	950	feather bed maker	502
eye wire maker	263	fan engine driver	950	feather bleacher	502
		fan fitter	309	feather box curler	502
		fan manager	041	feather box steamer	502
		fan maker, electric	309	feather cleaner	502
		fan maker (lady's)	688	feather cleaner, ostrich	502
		fan man (acid blower)	149	feather curler	502
		fan man (coal mine)	047	feather curler, ostrich	502
		fan man (lead extraction)	276	feather dresser	502
		fan man (mineral oil refining)	143	feather dyer	502
		fan man (works)	950	featherer, arrow	632
		fan minder	047	feather layer-up	632
		fanner (corsets)	406	feather machinist	632
		fanner (corsets, embroidery)	407	feather maker	632
		fanner (glass drawer's assistant)	138	feather maker, ostrich	632
		fanner (glass drawer's boy)	139	feather man	770
		fanner (glass tube drawing)	139	feather picker	502
		fan painter	688	feather purifier	632

F

Code Number.		Code Number.		Code Number.	
feather scraper	538	feeder, machine (saw)	279	fellow tender	475-6
feather sewer	538	feeder, machine (printing works)	530	fellows' corner	759
feather sorter, fancy	539	feeder, machine ruler	530	fellow miler	104
feather sorter (ostrich, etc.)	539	feeder, machine (wool carding)	536	felt hatter	376
feather steamer	532	feeder, mill (metal mine)	363	felt cutter (spoking galvanised sheet)	639
feather stringer	532	feeder, mill (patent fuel, etc.)	559	felt cutter (textile mill)	390
feather trimmer (shuttlecock)	560	feeder, mill (saw)	279	felt dryer	398
feather washer	532	feeder, mill (saw)	279	feltier, boiler and steampipe	569
feather washer, ostrich	532	feeder, mill (saw)	279	feltier (leather board)	519
feather worker (dressing-dyeing)	532	feeder, mill machine	279	feltier (road)	570
feather worker (making-up)	538	feeder, mangle shod	279	feltier (shipbuilding)	569
feed box mender	363	feeder, opener (cotton)	362	feltier (textile finishing)	384
feeder, automatic machine	279	feeder, opener machine (cotton)	362	felt former	378
feeder, bale	362	feeder, oven	448	felt fuller	384
feeder, bale breaker	362	feeder, ox	429	felt hardener	378
feeder, ball mill (copper rolling)	279	feeder, pan	119	felt hat cutter	469
feeder, ball mill (shale crushing)	099	feeder, paper bag	553	felt hat polisher	410
feeder, bar	278	feeder (photo plates, films, paper)	569	felt maker	376
feeder, bark mill	339	feeder, pig	569	felt maker, hair	378
feeder, basic slag mill	099	feeder, plaster	530	felt maker (piano)	648
feeder, block	465	feeder, pot mill	119	felt pocket	943
feeder, blocking	537	feeder, poultry	019	felt roller	570
feeder (bolts, nuts and rivets)	279	feeder, press	138	felt sewer	418
feeder, bowl	364	feeder, printing machine	530	felt velvet finisher	410
feeder, breaker (cotton blowing room)	362	feeder, printing machine (leather)	535	felt washer	384
feeder, breaker (jute)	363	feeder, pug mill (public works)	381	felt weaver	378
feeder, breaker (rag dock making)	509	feeder, rail drill	279	felt worker	378
feeder, breaker	149	feeder, rail planer	279	female attendant (P.O. Medical Department)	929
feeder (card and pasteboard)	519	feeder, rail straightener	279	fence erector	474
feeder, card (cotton)	363	feeder, rock	279	fence loader	577
feeder, carder (felt, wool)	363	feeder, roller	564	fence, leading (railway)	474
feeder, carding engine condenser	963	feeder, royer (jute)	399	fence, stone	572
feeder, card (jute, wool)	363	feeder, ruler's	530	fence (wood)	474
feeder (cement mill)	099	feeder, ruling machine	530	fence wailer	572
feeder, clay	119	feeder (saw-mill)	499	fence wailer, dry	372
feeder, coke	279	feeder, scribbler	363	fencing maker	474
feeder, condenser	363	feeder, scribbling	363	fencing riveter	255
feeder (copper smelting)	279	feeder, scutcher (cotton)	362	fender boy	699
feeder, Crichton opener	362	feeder, scutcher (flax, hemp)	362	fen draining labourer	026
feeder, Crichton opener machine	362	feeder (seed crushing)	159	fenter (linings)	319
feeder, crusher (chalk, clay)	074	feeder, self	279	ferret wrier	542
feeder, crusher (contractor's)	561	feeder, snapper (jute)	399	fermenter (brewery)	453
feeder, crusher (patent fuel, etc.)	099	feeder, snapping (jute)	399	fermenter (cider, ginger beer, etc.)	456
feeder, crusher (stone mine or quarry)	072	feeder (soap)	363	fermenter (distillery)	458
feeder, cupola	363	feeder, sifter	399	fermenting man (distillery)	458
feeder, drawing	363	feeder, spirit	149	fern collector	609
feeder, drill	279	feeder, splitting machine	338	fern gatherer	639
feeder, drum	039	feeder, steeper	384	fern preserver	609
feeder, dryer's	465	feeder (stone mine or quarry)	072	ferro-concretor	579
feeder, embossing	552	feeder, straightener (rolling mill)	581	ferro-concretor's iron worker	581
feeder, engine	363	feeder, stretching machine	384	ferro-primate maker	143
feeder (extruding)	099	feeder, swan	039	ferrotype artist	307
feeder (felt)	363	feeder, swine	024	ferrous filter	168
feeder (finishing)	399	feeder, tack	279	ferrous maker	200
feeder (flax and hemp)	363	feeder, textile printing	399	ferrous (walking sticks)	499
feeder (flax waste)	363	feeder, tin printing machine	399	ferrous stamper	254
feeder, folding machine	549	feeder, tow	362	ferrous turner	290
feeder, furnace	429	feeder (low preparing, wool carding)	363	ferry boat boy	738
feeder (galvanising)	279	feeder, tumber	363	ferry boat proprietor	738
feeder, gill box	363	feeder, varnishing machine	549	ferry boy	738
feeder, grinder	539	feeder, varnishing machine (triplicate)	549	ferry captain	738
feeder, gumming machine	539	feeder (wood)	363	ferry man	738
feeder, hand (metal work)	279	feeder, woolen	363	ferry master	738
feeder (hats)	428	feeder, wire nail machine	363	ferriker maker	143
feeder, heel	414	feeder-in (finishing)	399	ferriker, axle bearing	183
feeder, hopper (cotton blowing)	363	feeder-in (mercerising)	399	ferriker, axle brass	185
feeder, hopper (wool carding)	363	feederman	159	ferriker, brass	185
feeder, horse (table)	725	feeder-on, machine (cotton blowing and scutching)	362	ferriker, card	364
feeder, horse (stone mine or quarry)	072	feeder-up, fur (glass polisher)	139	ferriker (carding machine)	364
feeder (iron and steel tubes)	279	feeder-up, fur (saw)	429	ferriker, cleck	183
feeder (iron foundry)	163	feeder-up (rubber calendaring)	609	ferriker (colliery)	947
feeder (jute breaking, drawing)	363	feeder-up, tobacco	419	ferriker, colliery	947
feeder, jute opener	362	feed maker (rubber)	609	ferriker (cotton weaving)	399
feeder (jute opening)	362	feedman	950	ferriker, cupola	545
feeder, lap (on cards)	363	feed machine, pedal (piano)	270	ferriker (cylinder)	394
feeder, lap (on smelter)	362	feeder, shoe (saw)	950	ferriker, axle bearing	183
feeder, lattice	363	feeder, shoe (saw)	950	ferriker, axle brass	185
feeder, lattice (cotton blowing room)	362	feeder, shoe (saw)	950	ferriker, brass	185
feeder (laundry)	918	feeder, shoe (saw)	950	ferriker (brass foundry)	185
feeder, lithographic machine	530	feeder, shoe (saw)	950	ferriker, card	364
feeder, machine (automatic woodworking machinery)	486	feeder, shoe (saw)	950	ferriker (carding machine)	364
feeder, machine (boot, shoe making)	414	feeder, shoe (saw)	950	ferriker, cleck	183
feeder, machine (cotton blowing and scutching)	362	feeder, shoe (saw)	950	ferriker (colliery)	947

	Code Number.		Code Number.		Code Number.
fettler, tool	278	filer, spoon and fork	267	filer, frame (sagger making)	116
fettler of castings	183	filer (stick making)	464	filer, frame (soap)	159
fettler of clay ware	105	filer, stool	488	filer, fur	317
fettling wheeler	279	filer (tobacco pipes, not clay)	668	filer, furnace (blast furnace)	279
filre boiler-man	518	filer, tool	233	filer, furnace (gas works)	149
filre broom maker	518	filer, top piece (boots)	429	filer, fuse	149
filre can riveter	558	filer and buster	233	filer, gauge	149
filre can stitcher	558	filer and scraper	233	filer, gas	709
filre can turner-over	358	filer at notching machine	238	filer, gas cylinder	149
filre can varnisher	559	filer at planer	233	filer, gill pin (textile ma-	278
filre carder	363	file setter	232	chinery)	278
filre cement wall maker	082	file smith	130	filer, golf ball mould...	608
filre comb, brush	363	filed gold case maker	395	filer, handle pin (textile	279
filre crumpler	399	filer, ash (coke works)	389	machinery)	279
filre drier	638	filer, ash (railway)	709	filer, hematite	278
filre dresser (brush broom	638	filer, back (cloth)	390	filer, bond	279
factory)	638	filer, back (fasten finishing)	304	filer, benth	279
filre dresser (textile mill)	362	filer, back starch	298	filer, bide	334
filre dressing machine head...	639	filer, bag	949	filer, bopper (gas works)	689
filre dryer (cocoa-nut)	399	filer, bank	399	filer, bopper (textile)	362
filre dryer (brush, broom fac-	639	filer, barrow	279	filer, ink...	159
tory)	639	filer, battery	399	filer (jam)	449
filre dyer (textile mill)	359	filer (bedding, etc.)	502	filer, jar	149
filre filer	633	filer, blacking	949	filer, kabin	154
filre backler (brush, broom	639	filer (blast furnace)	279	filer, kiler (explosives)	149
factory)	639	filer, blue lead	149	filer, kiln (bricks, pottery)	619
filre backler, brush	363	filer, bobbin	399	filer, kiln (cement)	092
filre backler (textile mill)	362	filer, boiler	709	filer, kiln (lime burning)	092
filre backler (brush, broom	639	filer, bottle	429	filer, lime (blast furnace)	279
factory)	639	filer, bottom (boots)	429	filer, lime (lime burning)	092
filre backler (textile mill)	362	filer, bottom (furnace)	279	filer, limestone (blast furnace)	159
filre mixer	639	filer, box (card room)	399	filer, limestone (lime burning)	092
filre screener (cocoa nut)	398	filer, box (foundry)	183	filer (liquid glasses)	449
filre sorter (brush, broom	638	filer, box (matches)	949	filer, machine	633
factory)	638	filer, box (metal furnace)	279	filer, machine borer's plate...	533
filre sorter (raw silk)	356	filer, box (parking room)	399	filer, machine	399
filre suit case bender	345	filer, box (textile printing)	371	filer (machines)	949
filre turner	508	filer, braid	089	filer (meat preserving)	449
filre worker (compressed	558	filer, brass	633	filer (metal name)	449
paper)	558	filer (brush, broom)	633	filer, metal polish	949
filre worker (ebonite)	602	filer, brush	633	filer, miscellaneous	449
filreous fixer	567	filer, can	399	filer, mine (explosives)	149
filreous plasterer	567	filer (cane or rush)	472	filer, mine (ironworks)	279
filre maker	419	filer, cap (paracassia cap)	149	filer, mustard	449
filre molder (boots)	429	filer, carboy	363	filer, needle (fishing nets)	399
filre polisher	429	filer, card (wool)	367	filer, oil	159
filre coil winder	383	filer, carpet	399	filer, oil gas	279
filre drier	026	filer (carpet)	399	filer, ore (blast furnace)	279
filre (dyeing)	399	filer, cartridge	149	filer, ore (metal mine)	054
filre, printer's	399	filer (cartridges)	149	filer, oxygen	149
fold glass adjuster	322	filer, case	949	filer (packer)	949
fold glass assembler	322	filer, case	949	filer, packet	949
fold glass framer	322	filer, cement	074	filer, point	159
fold glass maker	322	filer, chalk, clay	074	filer, pickle	449
fold hand	024	filer, char (calined ironstone)	279	filer, pig	279
fold magnet winder	360	filer, char cistern	449	filer, pig (textile machinery)	278
fold man	102	filer, charcoal	449	filer, plug (steel)	279
fold tile maker	102	filer, chimney	279	filer, porcelain	279
figure caster	258	filer, circle pin (textile ma-	278	filer, pot (glasshouse)	116
figured glass maker	124	chinery)	278	filer, press	104
figure maker (pottery)	105	filer, clay	374	filer, print (carpet)	389
figure maker, wax	638	filer (cloth)	384	filer, print (textile printing)	389
figure (pottery)	105	filer, coal bag	970	filer (public works)	81
figure, thermometer	318	filer, coal (blast furnace)	279	filer, puddling	449
filament former	318	filer, coal (cement)	389	filer, punching machine	639
filament maker	318	filer (coal mine)	042	filer, quill	371
filament mounter	318	filer, coal (railway)	709	filer, rack (tinplate)	279
filament shaper	318	filer, coke ash	089	filer, raw material	279
filament solderer	318	filer, coke (cement)	089	filer, rock	074
filament winder	318	filer, coke (coke works)	089	filer, rock (salt)	149
file cutter (hand)	232	filer, coke (gas works)	089	filer (rock salt)	076
file cutter (machine)	232	filer, coke (pig iron)	279	filer, sagger frame	118
file cutter, rib	190	filer, cop (dyeing)	399	filer, sail	099
file forger	190	filer, cop (windings)	367	filer, salt (sulphate crystals)	149
file forger, saw	190	filer, cotton (carpet)	367	filer, sand	139
file maker	190	filer, crane (tinplate)	504	filer, sausage	449
filer, action (gun)	233	filer, cushion	279	filer, scabbler	363
filer, action (piano)	549	filer, damping	149	filer, scroll weaver's	399
filer, armature	233	filer, detector	743	filer (seed crushing, do.)	159
filer, axle	233	filer (down)	429	filer, shell	143
filer, barrel	233	filer, drum (colliery—above	049	filer, shuttle (substance)	367
filer, brass	233	ground)	049	filer, shuttle (yarn)	399
filer, briar	498	filer, drum (colliery—below	042	filer (milk dressing)	363
filer, copper	233	ground)	042	filer (milk weaving)	371
filer, core	180	filer, dresser's	363	filer, skip (metal mine)	054
filer, doctor (textile ma-	233	filer, drum (carpet)	399	filer, skip (stone mine or	072
chinery)	233	filer, drum (textile printer's)	719	quarry)	072
filer, eye (needles)	233	filer, drum	159	filer, skull (iron and steel)	279
filer, foundry	233	filer, enamel paint	149	filer, slag (blast furnace)	099
filer, key	233	filer, explosive	149	filer (slag mine or quarry)	073
filer (metal)	233	filer (explosives)	149	filer, spore	279
filer, odd (cycles)	233	filer, fire	633	filer, starch (starch factory)	449
filer (precious metals)	233	filer, fillet	279	filer, starch (textile finishing)	363
filer, saw	233	filer (fireworks)	149	filer, steel	638
filer, scroll	233	filer (franciscan)	384	filer, steel (pig iron)	279
filer, silver	233	filer (franch polisher)	476	filer, stone (lime burning)	092
filer, slate	233	filer, frame (matches)	149	filer, stone (lime packing)	099
filer, socked	233				

	Code Number.		Code Number.		Code Number.
filter, stone (metal mine) ...	354	filter pen hand ...	449	finisher, cart horse ...	278
filter, spongy ...	452	filter press attendant ...	449	finisher (cartbridge) ...	148
filter, tin (card room) ...	399	filter press cleaner ...	149	finisher, case ...	682
filter, tobacco press ...	448	filter pressman (chemicals) ...	149	finisher, case point ...	325
filter, top ...	379	filter pressman (clay slip) ...	104	finisher, caustic ...	143
filter, tram ...	042	filter pressman, oshalt ...	149	finisher (chassis) ...	210
filter, tray ...	149	filter press man (rugar refin- ing) ...	449	finisher, chassis (filter) ...	210
filter, truck (coal mine) ...	042	filter press man, white lead ...	149	finisher, chassis (painter) ...	583
filter, truck (metal mine) ...	042	filter press man (whiting) ...	099	finisher (chemical works) ...	149
filter, tub ...	149	final presser ...	404	finisher, cigar ...	468
filter, tube ...	042	final test man ...	278	finisher, circle ...	278
filter, twist ...	399	finance clerk ...	509	finisher, clay tobacco pipe ...	119
filter, varnish ...	159	financial agent ...	737	finisher (cloth hat, eng) ...	410
filter, wagon (colliery—above ground) ...	049	financial broker ...	737	finisher (clothing trunks) ...	436
filter, wagon (colliery—below ground) ...	042	financier ...	739	finisher, cloth or piece ...	344
filter, wagon (metalliferous mine—above) ...	056	finder, bobbin ...	399	finisher, coach ...	475-6
filter, wagon (metalliferous mine—below) ...	054	finder, bolt (flamette) ...	943	finisher, coach spring ...	278
filter, wagon (pottery) ...	370	finder, bolt (electric cables) ...	368	finisher, coat (knitted coats) ...	379
filter, weaver's ...	370	finder, bolt (electric cables) ...	368	finisher, coat (tailoring) ...	404
filter, whitening ...	039	finder, tool ...	342	finisher, coat (tailoring) ...	143
filter, wire ...	298	finder, worsted (carpets) ...	399	finisher, coffin ...	301
filter (wood) ...	593	fine art dealer ...	470	finisher, coil ...	301
filter, wood ...	593	fine art museum work head ...	529	finisher, cold rolls, tinplate ...	178
filter (wool spinning) ...	593	fine art printer ...	529	finisher, collar ...	419
filter, worsted (carpets) ...	042	fine carter ...	258	finisher, combing ...	363
filter and drawer ...	399	fine drawer (clothes repairing) ...	419	finisher, common ...	639
filter and tram ...	042	fine drawer (wood) ...	379	finisher, composition stone ...	283
filter boy (flax, hemp) ...	399	fine etcher ...	526	finisher, concrete block ...	436
filter boy (silk dressing) ...	363	fine etcher, process ...	526	finisher, coopers (coopers) ...	498
filter-in (card tooth setting) ...	225	fine etcher, three colour pro- cess ...	526	finisher (corn hats) ...	428
filter-in (chair making) ...	472	fine finisher ...	689	finisher (concrete) ...	406
filter-in, design ...	368	fine liner ...	593	finisher, costume ...	405
filter-in (for painter) ...	479	fine liner head ...	099	finisher, crane ...	384
filter-in (french polishing) ...	163	fine liner (cylinder) ...	178	finisher, drum ...	419
filter-in (iron foundry) ...	478	fine liner (cylinder) ...	178	finisher, earring ...	238
filter-in (paper mill) ...	519	fine liner (cylinder) ...	178	finisher, cycle ...	229
filter-in, palisher's ...	478	fine liner (cylinder) ...	178	finisher, cycle ...	229
filter-in (pottery) ...	103	fine liner (cylinder) ...	178	finisher, dental rubber ...	608
filter of shute (silk dressing) ...	363	fine liner (cylinder) ...	178	finisher (doughing) ...	396
filter of skate (silk weaving) ...	472	fine liner (cylinder) ...	178	finisher, drum ...	419
filter-out (liquid glucose) ...	427	fine liner (cylinder) ...	178	finisher, end (house, horn, do.) ...	618
filter-out, sheep dip ...	149	fine liner (cylinder) ...	178	finisher (dyeing and cleaning) ...	929
filter-out (solid glucose) ...	449	fine liner (cylinder) ...	178	finisher, ebonite ...	618
filter-up (card tooth setting) ...	225	fine liner (cylinder) ...	178	finisher, elastic hosiery ...	384
filter-up, chair (cane) ...	472	fine liner (cylinder) ...	178	finisher (electro) ...	524
filter-up (coaches) ...	593	fine liner (cylinder) ...	178	finisher (embroidery) ...	497
filter-up, tobacco ...	448	fine liner (cylinder) ...	178	finisher (end (house, horn, do.) ...	618
filter-up (wood) ...	593	fine liner (cylinder) ...	178	finisher, and (pencil) ...	499
filter-up, wood ...	593	fine liner (cylinder) ...	178	finisher, faller ...	278
filters and loaders' foreman ...	091	fine liner (cylinder) ...	178	finisher, fancy ...	639
fil house man ...	449	fine liner (cylinder) ...	178	finisher (felt hats) ...	410
filling machine attendant ...	945	fine liner (cylinder) ...	178	finisher, felt velvet ...	410
filling mangle, back ...	398	fine liner (cylinder) ...	178	finisher (fied) ...	278
filling mangle ...	398	fine liner (cylinder) ...	178	finisher (filig) ...	233
filling mangle (finishing) ...	688	fine liner (cylinder) ...	178	finisher, fine ...	609
fil assembly ...	091	fine liner (cylinder) ...	178	finisher, fishing rod ...	688
fil cutter ...	091	fine liner (cylinder) ...	178	finisher (fishing rods) ...	688
fil developer ...	527	fine liner (cylinder) ...	178	finisher (fly or hemp) ...	342
fil editor ...	582	fine liner (cylinder) ...	178	finisher, fix ...	472
fil hiring agent ...	081	fine liner (cylinder) ...	178	finisher, football ...	348
fil hiring agent's manager ...	881	fine liner (cylinder) ...	178	finisher, foramen ...	359
fil joiner (film producing) ...	928	fine liner (cylinder) ...	178	finisher, fork ...	278
fil printer ...	081	fine liner (cylinder) ...	178	finisher, frame ...	416
fil producer ...	081	fine liner (cylinder) ...	178	finisher (fur) ...	332
fil reuter ...	081	fine liner (cylinder) ...	178	finisher, fusian ...	354
fil repairer ...	688	fine liner (cylinder) ...	178	finisher, fuse chain ...	278
fil slicer ...	689	fine liner (cylinder) ...	178	finisher, gilt ...	278
fil speaker ...	689	fine liner (cylinder) ...	178	finisher (glass bottle) ...	124
fil stainer (cinemas) ...	527	fine liner (cylinder) ...	178	finisher, glove (hand) ...	411
fil stainer (photographic plates) ...	688	fine liner (cylinder) ...	178	finisher, glove (machine) ...	411
fil studio manager ...	582	fine liner (cylinder) ...	178	finisher, gold ...	537
fil timer ...	527	fine liner (cylinder) ...	178	finisher (gun) ...	238
filter bed attendant ...	698	fine liner (cylinder) ...	178	finisher, hand (hand) ...	411
filter bed cleaner ...	699	fine liner (cylinder) ...	178	finisher, glove (machine) ...	411
filter bed foreman ...	692	fine liner (cylinder) ...	178	finisher, gold ...	537
filter bed labourer ...	699	fine liner (cylinder) ...	178	finisher, gun ...	238
filter bed valveman ...	698	fine liner (cylinder) ...	178	finisher, hand (hand) ...	411
filter boy ...	319	fine liner (cylinder) ...	178	finisher, hammer ...	398
filter cloth washer ...	449	fine liner (cylinder) ...	178	finisher, hammer rail ...	492
filterer (celluloid) ...	618	fine liner (cylinder) ...	178	finisher, hammer ...	478
filterer (paraffin wax) ...	143	fine liner (cylinder) ...	178	finisher, hard ...	410
filterer (silk dope) ...	149	fine liner (cylinder) ...	178	finisher (harmonium) ...	648
filter ganger ...	692	fine liner (cylinder) ...	178	finisher (harness furniture) ...	278
filter labourer ...	699	fine liner (cylinder) ...	178	finisher, helmet ...	410
filter machine (celluloid) ...	618	fine liner (cylinder) ...	178	finisher (heaters, knitted gar- ments) ...	379
filter man (celluloid) ...	618	fine liner (cylinder) ...	178	finisher, iron fork ...	278
filter man, charcoal ...	449	fine liner (cylinder) ...	178	finisher (iron foundry) ...	183
filter man (chemical works) ...	149	fine liner (cylinder) ...	178	finisher, jam ...	549
filter man (glucose) ...	449	fine liner (cylinder) ...	178	finisher, joint ...	325
filterman (metal works) ...	278	fine liner (cylinder) ...	178	finisher, key (saw) ...	243
filter man (oil) ...	159	fine liner (cylinder) ...	178	finisher, lace ...	365
filter man (paper mill) ...	519	fine liner (cylinder) ...	178	finisher, lead ...	436
filterman (sawage farm) ...	399	fine liner (cylinder) ...	178	finisher (lead pencil making) ...	499
filter man (sugar refining) ...	446	fine liner (cylinder) ...	178	finisher, leather ...	335
				finisher (leather binding) ...	343
				finisher (leather dressing) ...	335
				finisher (leather goods) ...	348
				finisher, lens ...	136
				finisher, letter (metal) ...	278
				finisher, letter (type) ...	278

	Code Number.		Code Number.		Code Number.
finisher, letter (wood) ...	485	finisher, terra cotta ...	165	fireman, day ...	941
finisher, servant ...	335	finisher, terra cotta orna- mental ...	165	fireman, day shift ...	941
finisher, lin ...	386	finisher (textile cloth or yarn) ...	314	fireman, deputy (coal mine) ...	941
finisher, loomage ...	449	finisher (textile reeds) ...	278	fireman (deputy—stone blast- ing) ...	971
finisher, mantle ...	404	finisher (tobacco pipes, not clay) ...	618	fireman, dust destructor ...	951
finisher, motor ...	475-6	finisher (tooth brush) ...	618	fireman, emery wheel ...	992
finisher (musical instruments) ...	276	finisher, trouser ...	404	fireman, enamel kiln ...	109
finisher (music rolls) ...	556	finisher (turban) ...	200	fireman, engine (railway) ...	791
finisher (neckties) ...	419	finisher, twine ...	396	fireman, engine (stationary) engine ...	951
finisher, needle band ...	236	finisher, type ...	106	fireman (forging) ...	279
finisher (needles) ...	236	finisher, type ...	106	fireman, frame ...	171
finisher, object glass ...	138	finisher, typewriter ...	396	fireman (furnace) ...	279
finisher, oval ...	338	finisher, umbrella, parasol ...	416	fireman, furnace ...	279
finisher, organ ...	640	finisher, umbrella rib ...	241	fireman, gas ...	953
finisher, ornamented (terra cotta) ...	165	finisher, velvet ...	314	fireman, gas plant ...	953
finisher, paint brush ...	519	finisher, vulcanite ...	606	fireman (gas works) ...	951
finisher, panel (millboard) ...	518	finisher, warp ...	396	fireman (generators) ...	693
finisher, paper ...	518	finisher (watch, clock) ...	323	fireman, glow ...	109
finisher (paper collars, cuffs and fronts) ...	558	finisher, wheel, disc ...	200	fireman, hardening-on kiln ...	109
finisher, parosol rib ...	241	finisher (whip-leather) ...	340	fireman, hopper ...	736
finisher (parchment con- tainers) ...	559	finisher, whip ...	638	fireman, hydraulic ...	951
finisher, partition glass ...	598	finisher, white ash ...	143	fireman, kiln (bricks) ...	109
finisher, part (piano-fitting) ...	473	finisher, white cloth (linen) ...	304	fireman, kiln (grain milling) ...	449
finisher, part (piano—saw- papering) ...	499	finisher, wire ...	268	fireman, kiln (pottery) ...	109
finisher, patent slab ...	996	finisher (wire netting, rope, etc.) ...	498	fireman, kiln (sugar refining) ...	449
finisher, patent stone ...	996	finisher (wood) ...	498	fireman, locomotive (railway) ...	791
finisher, photograph ...	527	finisher, wooden bobbin ...	498	fireman, locomotive (works or mine) ...	791
finisher (piano) ...	644	finisher, wood letter ...	485	fireman, malleable iron oven ...	279
finisher, piano ...	644	finisher (wood wind instru- ment) ...	646	fireman (malt kiln) ...	452
finisher (piano keys) ...	643	finisher (wool combing) ...	363	fireman (metal mine—deputy) ...	951
finisher, pipe case ...	683	finisher, wrench ...	278	fireman (metal mine—shot fire) ...	954
finisher, plate ...	518	finisher, writing plate ...	517	fireman, saghammer still ...	142
finisher, plate ...	395	finisher, yarn (bleaching) ...	396	fireman, sago (malt kiln) ...	452
finisher (pocket knives) ...	508	finisher, yarn (hank) ...	399	fireman, oven (cement) ...	992
finisher (pottery) ...	105	finisher-and-reeler (twine) ...	396	fireman, oven (iron foundry) ...	279
finisher, racket ...	888	finisher card ender ...	383	fireman, oven (pottery) ...	109
finisher, rail ...	279	finisher card minder ...	363	fireman, plate ...	171
finisher, reed (textile machinery) ...	278	finisher doubler ...	365	fireman (pottery) ...	109
finisher, reel ...	638	finisher machine minder ...	362	fireman (stave or sheetro) producer gas) ...	953
finisher (roller) ...	178	finisher minder, balling ...	363	fireman (railway) ...	791
finisher (rolling stock) ...	475-6	finisher minder (cotton mill) ...	362	fireman, revolver ...	143
finisher, rough ...	395	finisher minder, doubler ...	362	fireman, salt ...	996
finisher (rubber goods) ...	609	finisher scutcher ...	362	fireman (salt works) ...	996
finisher, rug ...	384	finisher tenter ...	362	fireman, sanctuary ...	109
finisher, rule ...	498	finisher tenter, doubler ...	362	fireman, shed ...	791
finisher, safe ...	236	finishing back hooker ...	176	fireman (shapbuilding) ...	279
finisher, sail ...	518	finishing box tenter ...	363	fireman (shot lighter) ...	947
finisher, sailcase ...	384	finishing box tenter ...	363	fireman, sleeper mill ...	279
finisher, satin (metal polish- ing) ...	236	finishing boy ...	649	fireman, slip kiln ...	119
finisher (saw) ...	278	finishing catcher ...	178	fireman, smith's ...	279
finisher, saw ...	278	finishing doubler ...	366	fireman, smoker ...	171
finisher (screw) ...	279	finishing front hooker ...	176	fireman (stationary engine) ...	791
finisher, scythe ...	191	finishing gill box minder ...	363	fireman, steam motor ...	791
finisher, set ...	575	finishing machine hand ...	363	fireman (steam vessel) ...	736
finisher, setman ...	419	finishing mill oiler ...	279	fireman, steam wagon ...	791
finisher (shirts) ...	419	finishing roller ...	178	fireman, still ...	149
finisher, shovel and spade ...	278	finish mender (hosiery) ...	379	fireman (stopping examiner) ...	941
finisher, silk ...	394	finner ...	279	fireman, store (blast furnace) ...	171
finisher (silk hats) ...	410	finning hand ...	279	fireman, surface ...	951
finisher (silver and plate) ...	395	fire appliance cleaner ...	989	fireman, tar still ...	142
finisher (sinker maker) ...	210	firebar lad ...	708	fireman, tinhouse ...	171
finisher, skin rug ...	332	fire beater ...	951	fireman (Trinity House) ...	736
finisher, slate ...	576	fire block maker (patent fuel) ...	999	fireman (water gas) ...	953
finisher (slate polishing) ...	576	fire box frame smith ...	190	fireman, water gas ...	953
finisher, sley (textile machinery) ...	278	firebox smith ...	190	fireman, serang ...	736
finisher, sley (textile machinery) ...	278	fireboy ...	279	fireman's boy ...	947
finisher, slippers ...	414	fire carrier ...	709	fireman's night boy ...	947
finisher (sling arms) ...	498	fireclay block maker ...	999	fireplace filter ...	965
finisher, smith's ...	191	fireclay moulder ...	103	fireplace ornament maker ...	558
finisher, soft ...	410	fireclay retort maker ...	103	fire pot boy (contractor's) ...	581
finisher (soft toys) ...	603	fireclay worker ...	103	firepot boy (for hoeman) ...	319
finisher, spade and shovel ...	278	fire cleaner ...	709	fireproof black maker ...	996
finisher, spade and shovel shaft ...	494	fireproof man ...	647	fireproof door maker ...	996
finisher, spawner ...	278	fire drawer ...	709	fireproof floor filter ...	571
finisher, spoon and fork ...	265	fire drainer ...	709	fireproof floor layer ...	571
finisher, spring book ...	279	fire driver ...	709	fireproof floor maker ...	996
finisher, sprayer ...	279	firehole man ...	951	fireproof roof panel maker ...	996
finisher (stereo) ...	524	fire lad ...	709	fire raker (gas works) ...	999
finisher, stereo ...	524	fire lighter (not railway) ...	929	fire raker (boiler) ...	999
finisher (stick making) ...	484	fire lighter (railway) ...	709	fire, ball furnace ...	279
finisher, stirrup ...	279	firelighter maker ...	999	fire (bleacher's) ...	396
finisher, stock (gun) ...	498	fireman, abrasive wheel ...	992	fire, boiler ...	951
finisher, store ...	419	fireman, annealer's ...	279	fire, bush cringer ...	452
finisher (straw hats) ...	398	fireman, annealing furnace ...	641	fire (furnace) ...	279
finisher, striking drum ...	398	fireman, assistant ...	641	fire (fusion) ...	398
finisher, surgical bandage ...	398	fireman, biscuit ...	109	fire, kiln (bricks, tiles, etc.) ...	109
finisher (tailoring) ...	404	fireman (blasting—coal mine) ...	947	fire, kiln (glass) ...	122
finisher, tailor's ...	404	fireman (blasting—coal) ...	972	fire (malt kiln) ...	452
finisher, taper's ...	369	fireman, boiler ...	951	fire (padding) ...	279
finisher, telephone cord ...	319	fireman (bricks) ...	109	fire, revolver ...	143
finisher, tennis racket ...	416	fireman, cable ...	143	fire, shot (colliery) ...	947
finisher, tent ...	416	fireman (coal mine) ...	941	fire, shot (metal mine) ...	954

Code Number.		Code Number.		Code Number.	
firer, shot (stone mine or quarry) ...	072	fishing net mender ...	396	fitter, carpet ...	503
firer, slip house stove ...	118	fishing rod maker ...	688	fitter, carriage (railway) ...	475-6
firer, stove (blast furnace) ...	171	fishing rod examiner ...	688	fitter, carriage (textile machinery) ...	210
firer, stove (pottery) ...	119	fishing rod finisher ...	688	fitter, car (tram) ...	210
firer and dogger (puddling furnace) ...	278	fishing rod polisher ...	688	fitter, case (jewel, brush, pipe, etc.) ...	688
firm-out ...	437	fish inspector ...	700	fitter, case (saw making) ...	258
fire animalmaker ...	418	fish keeper (estate) ...	889	fitter, cement ...	270
fire tender ...	951	fish keeper (river) ...	910	fitter (chandelier-lustre) ...	138
firewood chopper ...	499	fish loader ...	745	fitter, chandelier ...	278
firewood cutter ...	499	fish lunger ...	745	fitter, chimney ...	210
firewood dealer ...	717	fish market superintendent ...	770	fitter, chocolate machine ...	210
firewood tier ...	949	fishmonger ...	790	fitter, circuit breaker ...	310
firework bricklayer ...	585	fish oil harralloy ...	159	fitter, clip chain (sawyer) ...	210
firework maker ...	149	fish oil holder ...	158	fitter, coach (railway) ...	475-6
firing tube drawer ...	286	fishplate handler ...	278	fitter, coat (knitted) ...	379
first bobbin and fly frame tender ...	363	fishplate inspector ...	278	fitter, coat ...	278
first call stove man (gas works) ...	692	fishplate presser ...	190	fitter, cook ...	238
first card hand (rope and twine) ...	363	fishplate shaver ...	279	fitter, colliery ...	210
first engineer (ship) ...	734	fishplate stacker ...	279	fitter, commutator ...	318
first foreman ...	190	fish porter ...	758	fitter, compound (locomotive) ...	226
first framer ...	363	fish porter (dock) ...	745	fitter, constructional ...	226
first framer dresser ...	383	fish porter, foreman ...	766	fitter (constructional engineer-ing) ...	226
first half door and pivoter ...	324	fish porter (railway) ...	706	fitter, controller ...	318
first hand, furnace (sino ex-traction) ...	171	fish quay man ...	745	fitter, cork ...	459
first hand (retail dressmaking) ...	465	fish runner ...	796	fitter (corsets) ...	406
first hand at furnace ...	250	fish salesman's clerk ...	939	fitter, cot ...	278
first hand pickler ...	219	fish salesman's runner ...	789	fitter, cushion tyre ...	659
first helper ...	219	fish sailer ...	437	fitter, cycle tyre ...	659
first leading man (railways) ...	577	fish skinner (walking and um-brella sticks) ...	489	fitter, depositor ...	290
first longman (railway) ...	577	fish smoker ...	437	fitter, dial weighing machine ...	260
first machina assistant ...	518	fish splitter ...	448	fitter, die ...	210
first mate ...	733	fish tenterer ...	449	fitter, district ...	235
first mopper ...	618	fish transit man ...	706	fitter, dobbie ...	210
first officer ...	178	fish watcher ...	910	fitter, double (dobby) ...	210
first passer ...	178	fish wife ...	777	fitter, drum pipe ...	381
first picker ...	250	fish worker ...	449	fitter, dressmaker's ...	405
first saloon steward ...	737	fitter, acetylene gas apparatus ...	239	fitter (dressmaker's first hand) ...	405
first saloon stewardess ...	737	fitter, action (pipe organ building) ...	682	fitter (dressmaking-cutter) ...	402
first silkman ...	432	fitter, aeroplane ...	210	fitter, dynamo ...	210
fish and chip dealer ...	911	fitter, agricultural ...	210	fitter, edge tool ...	278
fish auctioneer ...	796	fitter, agricultural machine ...	210	fitter, ejector ...	239
fish hobbler ...	745	fitter, airship ...	210	fitter, elastic spring ...	414
fish box carrier ...	989	fitter, alternator ...	210	fitter, electrical ...	305
fish breeder ...	745	fitter, anchor ...	278	fitter, electrical engineering ...	305
fish briner ...	437	fitter, angle brass ...	224	fitter, electrical (G.P.O.) ...	310
fish checker ...	706	fitter, arc lamp ...	309	fitter, electric bell ...	305
fish cleaner ...	448	fitter, art metal ...	221	fitter, electric light ...	311
fish cook (hotel, &c.) ...	900	fitter, automatic machine ...	211	fitter, electric meter ...	309
fish cook (ship) ...	737	fitter, axle ...	210	fitter, engine ...	210
fish curer ...	437	fitter, axle box ...	210	fitter, engineering ...	210
fish dockman ...	745	fitter, axle brass ...	210	fitter, engineering ...	210
fisher boy ...	000	fitter, balance weight ...	210	fitter, engine top machine ...	210
fisherman, cod ...	000	fitter, bank ...	483	fitter, engine tool ...	211
fisherman, crab ...	000	fitter, banjo ...	648	fitter, exhibition stand ...	714
fisherman, deep sea ...	000	fitter, bar ...	483	fitter, fan ...	309
fisherman, drifter ...	000	fitter, bath ...	278	fitter, ferule ...	688
fisherman, drift net ...	000	fitter, battery ...	362	fitter, fire ...	235
fisherman, eel ...	000	fitter, beam ...	280	fitter, fireplace ...	585
fisherman, haaf net ...	000	fitter, bearing ...	278	fitter, fireproof door ...	571
fisherman, herring ...	000	fitter, bedstead ...	278	fitter (fishing rod) ...	688
fisherman, inshore ...	000	fitter, beer machine case ...	448	fitter, fittings and furniture ...	475-6
fisherman, kettie net ...	000	fitter, bellows ...	688	fitter, fringe (textile beam making) ...	210
fisherman, lobster ...	000	fitter, billiard table ...	688	fitter, fro-wale ...	344
fisherman, longshore ...	000	fitter, blinds ...	210	fitter, fountain pen ...	600
fisherman, North Sea ...	000	fitter, blind ...	688	fitter, frame (cycle making) ...	229
fisherman, oyster ...	000	fitter, body (engineering) ...	210	fitter, frame (locomotive) ...	210
fisherman, crayon ...	000	fitter, body (vehicle building) ...	475-6	fitter, frame (rolling stock) ...	210
fisherman, river ...	000	fitter, boiler ...	210	fitter, frame (textile ma-chinery) ...	210
fisherman, salmon ...	000	fitter, boiler mount ...	210	fitter, frame wheel (cycles) ...	210
fisherman, seine ...	000	fitter, boiler pipe ...	210	fitter, frussee ...	210
fisherman, smelt ...	000	fitter, boiler tube ...	222	fitter, furniture (work bats) ...	426
fisherman, sprat ...	000	fitter, bone handle ...	618	fitter, furniture (wood) ...	473
fisherman, toe line ...	000	fitter, boot machinery ...	210	fitter (Fustian clothing and tailoring) ...	404
fisherman, whammal ...	000	fitter, boot plate ...	414	fitter, galvanic apparatus ...	329
fisherman, whitebait ...	000	fitter, bottle mould ...	210	fitter, gas and oil engine ...	210
fishery keeper ...	448	fitter, box (saw's colour) ...	349	fitter, gas engine ...	210
fish filleter ...	448	fitter, box (iron or steel laundry) ...	229	fitter, gas fire ...	210
fish foreman ...	706	fitter, brake (cycle) ...	229	fitter, gas holder ...	226
fish fryer ...	829	fitter, brake (engineering works) ...	210	fitter, gas lantern ...	235
fish gipper ...	448	fitter, brass ...	224	fitter, gas meter ...	210
fish guano maker ...	148	fitter, brass bearings ...	210	fitter, gas stove ...	235
fish guard ...	752	fitter, break-off ...	239	fitter, gate and railings (iron) ...	278
fish gutler ...	448	fitter, brin ...	688	fitter, gas (iron) ...	278
fish hatcher ...	989	fitter, break case ...	588	fitter, gear (cycles) ...	210
fish hatchery assistant ...	777	fitter, builder's ...	588	fitter, gear (electrolysis) ...	282
fish hawker ...	448	fitter, burner (gas) ...	693	fitter, geloh ...	609
fish header ...	745	fitter, burst ...	689	fitter, gramophone ...	643
fish hobbler ...	278	fitter, cabinet ...	473	fitter, gramophone matrix ...	643
fish book bender ...	278	fitter, cabinet case ...	473	fitter, gramophone soundbox ...	643
fish book bower ...	278	fitter, cabinet maker's ...	473	fitter, grinders ...	278
fish book finger ...	278	fitter, camera ...	322	fitter, grip ...	278
fish book tier ...	437	fitter (cashed containers) ...	359	fitter, gun ...	239
fish bone worker ...	437	fitter, carding engine ...	210	fitter, gun and mountings ...	210
fishing boat hand ...	000				

	Code Number.		Code Number.		Code Number.
fitter, gun mountings	210	fitter, press tool	211	fitter, truck (tram)	210
fitter, gun (ordnance)	210	fitter, printing machinery	210	fitter, tube (assembling)	210
fitter, hammer	278	fitter, pump	210	fitter, tube (locomotive)	210
fitter, handle bar	228	fitter, rail	278	fitter, tube (pipe fitting)	251
fitter, head	390	fitter, railway	210	fitter, turbine	210
fitter, helmet furniture	420	fitter, railway engine	210	fitter, turning	211
fitter, hot water	240	fitter, railway signal	210	fitter, turret clock	323
fitter, hot water pipe	251	fitter, railway signal lock bar	210	fitter, tyre	659
fitter, hydraulic	210	fitter, railway wagon	210	fitter, tyre tread	659
fitter, hydraulic machinery	210	fitter, range	270	fitter, umbrella, parasol	415
fitter, iron bag	609	fitter (range, stove)	278	fitter (upper closing)	210
fitter, instrument	309	fitter, read board	648	fitter, vacuum brake	210
fitter, interlocking	210	fitter, resort (gas works)	210	fitter, valve (cycle inner tube)	609
fitter, iron (building trade)	228	fitter, rheostat	309	fitter, valve (engineering works)	210
fitter, iron cabinet	278	fitter, ride	299	fitter, vehicle	475-6
fitter, iron gate	278	fitter, rimless	322	fitter, wagon	210
fitter, ironmonger's	210	fitter, rough (bedstead)	278	fitter, wagon brass	224
fitter, ironmongery	210	fitter, rough (engineering works)	210	fitter, waler	252
fitter, iron pattern	210	fitter, rubber tyre	659	fitter, wedge	210
fitter, jawl case	688	fitter, saddle (cycles, &c.)	278	fitter, weighbridge	260
fitter, knife (agricultural)		fitter, safe	254	fitter, weighing machine	260
fitter, shoe, &c., machinery	210	fitter, sanitary engineer's	210	fitter, Westinghouse brake	210
fitter, lamp	310	fitter, sanitary (pottery machinery)	210	fitter, wet gas meter	210
fitter (leather belt)	343	fitter, scale beam	260	fitter, wheel	210
fitter, light-house	210	fitter, scales and weighing machines	260	fitter, wire rope machinery	210
fitter, lighting	698	fitter, scales and weighing machines	260	fitter, work box	688
fitter, line (linotype machine)	210	fitter, saws	278	fitter, work box	688
fitter, linoleum	403	fitter, screw's	211	fitter, worming (across)	211
fitter, linotype	210	fitter, soya	278	fitter and erector	210
fitter, locking (railway signal)	210	fitter, sewing machines	210	fitter and finisher, box iron	210
fitter, locomotive	210	fitter, ship	210	fitter and roller, buckle tongue	278
fitter, loom	210	fitter, ship telegraph	210	fitter and turner	210
fitter (loose leaf books)	278	fitter, shirt	483	fitter-erector	395
fitter, machine	210	fitter, shop	210	fitter in ladies' room (kitted goods)	379
fitter, machine knife	210	fitter, sight	210	fitter-on (tailoring)	404
fitter, machine tool	210	fitter, signal (engineering works)	210	fitter-on's assistant	213
fitter, magnet	210	fitter, signal (fineman)	261	fitter's labourer	213
fitter, mantle maintenance	698	fitter, silver and plate	287	fitter's labourer, boiler pipe	213
fitter, marine engine	210	fitter, silver, bottom	489	fitter's labourer, boiler tube	228
fitter, matrix (gramophone)	648	fitter, smith's	190	fitter's labourer, brass	279
fitter, mattress	278	fitter, smith's work	190	fitter's labourer, brass	236
fitter, mechanical	210	fitter, solid tyre	649	fitter's labourer, ship	223
fitter (metal articles)	278	fitter, speed gear	210	fitter's machinist	200
fitter, metal casement	278	fitter, speedometer	278	fitter's mate, art metal	221
fitter, metallic tubing	210	fitter, speedometer	278	fitter's mate (electrical)	319
fitter, meter (electrical)	309	fitter, spring (textile machinery)	210	fitter's mate (engineering works)	213
fitter, meter (gas and water meters)	210	fitter, spring	210	fitter's mate, gas	236
fitter, meter (water works)	252	fitter, spring dial weighing machine	260	fitter's mate (gas fitting)	236
fitter, motor cycle	228	fitter, spring terminal	251	fitter's mate, pipe	251
fitter, motor cycle engine	210	fitter, sprinkler	278	fitter's mate, water	253
fitter, motor (electrical)	318	fitter, spur tackle	278	fitter's pressman	190
fitter, motor engine	210	fitter, stand	210	fitter-on, action	649
fitter, motor (rolling stock)	210	fitter, steam (engineering works)	210	fitter-on (hajo)	230
fitter, motor (self-propelled road vehicles-not steam)	210	fitter, steam (heating engineering)	240	fitter-on (hoist)	278
fitter, motor starter	323	fitter, steam and hot water	340	fitter-on (billiard table)	688
fitter, motor tread	659	fitter, steam engine	210	fitter-on, billiard table	688
fitter, motor tyre	659	fitter, steam fittings	210	fitter-up (boot, shoe making)	414
fitter, motor tyre bead	608	fitter, steam gauge	210	fitter-up (brass)	224
fitter, mould	183	fitter, steel door	210	fitter-up (brass wind instrument)	648
fitter, moustache	608	fitter, steelyard	260	fitter-up (chair) (constructional engineering)	476
fitter, mule	210	fitter, stenter chain	210	fitter-up (fasten clothing and tailoring)	404
fitter, musical bell	278	fitter (stick making)	494	fitter-up (gun)	239
fitter, net	388	fitter, stock (boots)	414	fitter-up (iron and steel foundry)	210
fitter, nickel and turner's	211	fitter, stock (metallic bodies)	210	fitter-up (leather belt)	498
fitter, office	483	fitter (stone mine or quarry)	972	fitter-up, outside	498
fitter, oilcloth	503	fitter, stover	235	fitter-up (perambulator)	658
fitter, oil engine	210	fitter, stove (gas stove)	278	fitter-up, perambulator	658
fitter, opera hat	428	fitter, stove (grate, range)	278	fitter-up (piano, etc., case)	475
fitter, opera hat spring	428	fitter, stove maintenance	338	fitter-up, picture frame	485
fitter, optical	278	fitter, switch	318	fitter-up (sheet metal goods)	478
fitter, optical's	648	fitter, switch and crossing	210	fitter-up (shirts)	229
fitter, organ	648	fitter, switchboard	318	fitter-up (sides)	278
fitter, orthopedic instrument	683	fitter, switchgear	399	fitter-up (stick making)	484
fitter, oven (biscuit factory)	470	fitter, switchgear (switchboard)	318	fitter-up (stoves, &c.)	278
fitter, overmantel	211	fitter, sword	220	fitter-up of bamboo furniture	498
fitter, palisade	278	fitter, syphon	278	ittings and furniture fitter	475-6
fitter, paste (boots)	428	fitter, tank	278	ittings cutler	413
fitter, pattern	210	fitter, taximeter	322	ittings inspector (gas works)	692
fitter, perambulator	658	fitter, telegraph instrument	309	ittings inspector, stove	692
fitter, permanent way	658	fitter, telephones (G.P.O.)	310	ittings maker, electrical	105
fitter, pillar	318	fitter, telephone instrument	309	ittings maker (safe)	692
fitter, pipe (blast furnace)	251	fitter, telephone (railway)	311	ittings master	284
fitter, pipe case	648	fitter, tender	210	five needle machinist	404
fitter, pipe (shipbuilding)	221	fitter, textile	210	fixer, advertisement	909
fitter, plate	252	fitter, tin house	210	fixer, back (piano, organ)	498
fitter, plate glass	569	fitter, tobacco machinery	188	fixer, back (saw)	279
fitter, plate pattern	210	fitter (tobacco pipes, not alloy)	278	fixer, blind	188
fitter, player	648	fitter, tool (edge tools)	278	fixer, hobbin tip	989
fitter, plumber's	278	fitter, tool (tool making)	265	fixer, roller	565
fitter, pneumatic tyre	648	fitter, tool (tool setting)	211		
fitter, point and crossing	210	fitter, tool (tool setting)	211		
fitter, pole	318	fitter, team car	210		
fitter, potter's	210	fitter, transformer	318		
fitter, potter's die	210				
fitter, power house	210				
fitter, preparing machinery	210				

	Code Number.		Code Number.		Code Number.
fixer, brass letter	588	flask light bulb maker	318	float builder	475-6
fixer, cap	318	flat boy	738	float builder, milk	475-6
fixer (carpenter)	474	flat captain	738	float builder, soapstone	475-6
fixer, carpet	583	flat carrier	119	float builder, tradesmen's	475-6
fixer (dyer's)	388	flat clothier	225	float captain	738
fixer, electric sign	371	flat cloth worker	225	float driver, cattle	719
fixer, encaustic tile	571	flat cooper-on	343	floatier (blast furnace)	238
fixer, expanded metal	588	flat dresser	361	floatier, cattle	719
fixer, falience and mosaic	571	flat dressing machine minder	361	floatier (collethead collar)	619
fixer, fastener	429	flat driver	719	floatier (cement, plaster)	388
fixer, fibrous	367	flat grinder (card clothing manufacture)	237	floatier (dilor)	233
fixer, frame (beam making)	535	flat grinder (textile mill)	364	floatier (irrigation)	624
fixer, flange (cardboard box)	535	flat brusher	287	floatier (plate)	575
fixer, gauged arch	581	flat bowl	613	floatier, tube	238
fixer, lamp post	569	flat hardener tender	378	floating bridge conductor	741
fixer, lead light	569	flat keeper	378	floating target maker	474
fixer, marquee	988	flat knocker	118	float maker (dishing)	338
fixer (mason)	572	flat locker	386	float maker, milk	475-6
fixer, motor (electrically)	311	flat maker	472	float maker, tradesmen's	475-6
fixer, motor (gas, water)	311	flatman (colliery)	738	float maker (vehicle building)	475-6
fixer, mosaic	571	flat man (lighterman)	738	floatman	738
fixer, mosaic tile	571	flat miller	200	float proprietor, cattle	719
fixer, motor (electrically)	311	flat overlooker (card clothing)	164-169	floatman (enamelled marble manufacture)	575
fixer, motor (engineering works)	218	flat planer (carding engine)	390	floatman (plate)	576
fixer (mush room rolls)	358	flat presser	195	floatman, slate	576
fixer, net	226	flat press printer	582	flock (paper staining)	548
fixer, patent glazing	527	flat pugger	278	flock machine tender	399
fixer (photography)	238	flat spring maker	278	flock pecker	399
fixer, pipe mount	585	flat stretcher, card	225	flock sorter	399
fixer, range	164-169	flat stretcher (card clothing)	225	flock washer	361
fixer, rate	474	flat stripper	364	flock worker	399
fixer, saw bank	389	flatener, bar	190	flock maker	389
fixer, sign	588	flatener (collethead)	618	floodgate attendant	741
fixer, steel letter	235	flatener (clog iron)	278	floodgate keeper	741
fixer, stove	318	flatener (fish hooks)	278	floodgate man	741
fixer, stud	404	flatener (galvanised sheet)	278	floodgate master	741
fixer (tailoring)	389	flatener, gold and/or silver	258	floodgate tender	741
fixer, tent	255	flatener, paper	549	flood man and kin man	159
fixer, terra cotta	571	flatener, patent	278	floor cleaner	474
fixer, tessellated tile	571	flatener (saw)	278	floorcloth printer	538
fixer, tile	279	flatener, strander	278	floor coating layer	503
fixer, transfer	389	flatener, too	258	floor dresser	474
fixer, travel net	588	flatener, wire	258	floor hand, roller	638
fixer, window blind	278	flatener (wire drawing)	258	floor hand (sugar redzing)	449
fixer, zinc	305	flatener and straightener	138	flooring maker, parquet	498
fixer and repainer, controller	572	flatter (coach painting)	593	flooring maker, wood block	498
fixer mason	688	flatter (coal mine)	593	floor layer, block	480
fixer-up (billiard table)	210	flatter (enamelling, japaning)	241	floor layer, composition	571
fixer-up (railway signal)	585	flatter, gold and/or silver	288	floor layer, fireproof	571
fixure setter	575	flatter (maw)	279	floor layer, jointless	571
flag dresser	588	flatter, walk	102	floor layer (mosaic, tiles)	571
flagged maker	588	flat ware maker	105	floor layer, parquet	489
flagger (payee)	571	flat worker (cigarette)	468	floor layer, patent (mosaic, tiles)	571
flagger, stone	583	flat worker, cigarette	468	floor layer, patent (wood)	498
flagger's labourer	389	flat worker (optical glass)	138	floor layer, wood	474
flag machinist	419	flatist	886	floor layer, wood (blocks)	498
flag maker, artificial	088	flat and yarn storeman	941	floorman (brewing)	412
flag maker, cement	088	flat bundler	399	floor man (cables)	359
flag maker, concrete	088	flat dresser	362	floor man (chains)	279
flag maker (paper)	559	flat labourer	399	floor man, oil refinery	179
flag maker, paving	588	flat picker	389	floorman, top	048
flag maker (textile)	419	flat roller	382	floor moulder	180
flagman (railway)	704	flat storeman	941	floor plasterer	571
flagman, train	704	flat window	367	floor polisher	389
flagman (tramways)	729	flayer	138	floor setter (dealer)	770
flag pavier	575	beam fonger	190	florist (grower)	013
flagstone quarryer	072	flosser (wool combing)	399	florist, antel	929
flake cutter	468	flosser (fur skins)	338	flosser (corsets)	407
flower and seasoner	335	flosser, pelatine	558	floss stitcher	419
fonge box maker	534	flosser, hand	558	floss maker	419
fange coverer	539	flosser, machine	338	flosser (paper)	448
fange fitter (textile beam making)	210	flosser machine operator	338	four dresser (flour, confect)	448
fange fixer (beam making)	210	flosser bracelet maker	234	four dresser (grain milling)	432
fange fixer (cardboard box)	535	flosser gas holder maker	608	four mixer (flour confectionery)	449
fange maker (beams, tubes)	138	flosser pipe and tube maker	608	four mixer, mustard	449
fange maker (electric lamps)	190	flicker	639	four packer (grain milling)	449
fanger, beam	218	flint-out (drop forging)	190	four room hand	449
fanger (felt hats)	218	flint-out, pocket blade	190	four runner	449
fanger (glass)	429	flint attendant (coal mine)	049	four sifter (dressing)	449
fanger, hat leather	254	flint attendant, serial	049	four sifter, mustard	449
fanger (sheet metal)	190	flint boy	074	flower cutter, artificial	403
fanger (smith)	190	flint collector	092	flower cutter, artificial (paper)	552
fanger's assistant	279	flint dresser	375	flower cutter (material)	403
fange welder-on	190	flint	104	flower cutter (paper)	552
fanging machinist	190	flint grinder	104	flower out - out, artificial (paper)	552
fanging press attendant	190	flint miller	104	flower out - out (paper)	552
fanging smith	190	flint mill worker	104	flowerer (boots)	414
fanging smith's striker	190	flint pocker	104	flowerer (embroidery)	407
fannetie raiser	384	flint table glass worker	138	flowerer (pottery)	105
fannetie raising machine	384	flitter (coal conveyor)	043	flower turner	013
lenter	384	flitter (coal cutting machine man)	043	flower girl	777
fannel roller	954	flitter, conveyor	043	flower grower	013
fannel sorter	954	flitter boy	738	floweret	407
flap keeper	389				
flap segr	318				
flasher	124				

FI—Fo[illegible]

	Code Number.		Code Number.		Code Number.
foreman, garage	718	foreman, stable	715	foreman of street works (gas,	
foreman, gas	709	foreman, stage (gas works)	692	water and electricity)	692
foreman, gate	740	foreman, station	706	foreman packer (packer)	949
foreman, general (building		foreman, steamship	740	foreman packer (warehouse-	948
trade)	561	foreman, stevedore	740	man)	948
foreman, general (railway)	708	foreman, stock	700	foreman packer (yarn, cloth)	943
foreman, goods	706	foreman, stove	331	foreman parcel porter	706
foreman, grain	700	foreman, superior	700	foreman painter	561
foreman, harbour	740	foreman, surface (colliery)	641	foreman pegger	359
foreman, haulage	641	foreman, surface (metal mine)	651	foreman pipe layer	561
foreman, H. C. and D.	706	foreman, tanyard	331	foreman pitman	641
foreman, head	700	foreman (textile mill depart-		foreman platelayer (railway)	561
foreman, horse, carriage and	713	ment)	359	foreman plater	281
dog	708	foreman, trace horse	715	foreman porter (Post Office)	751
foreman, horse leading	706	foreman, traffic (colliery)	700	foreman porter (railway)	706
foreman, hotel	914	foreman, traffic (inspector)	700	foreman pump ganger	740
foreman, kiln (cement)	691	foreman, traffic (railway)	706	foreman raper	700
foreman, kiln (malthouse)	691	foreman, train	704	foreman rougher	359
foreman, lamp	706	foreman, train label board	706	foreman searcher	700
foreman, lamp-room	706	foreman, transporting	740	foreman ship worker	739
foreman, leading	740	foreman, tun room	451	foreman shunter (coal mine)	704
foreman, lead mill (polish)	691	foreman, underground	651	foreman shunter (passenger	
foreman, lime	331	foreman, vating	451	traffic)	704
foreman, lock (locks)	700	foreman, wallpaper	521	foreman shunter (railway)	704
foreman, locom.	740	foreman, room)	521	foreman slag crusher	561
foreman, locomotive	700	foreman (warehouse)	940	foreman slater	561
foreman, locomotive yard	700	foreman, warehouse	940	foreman stuffer	359
foreman, lottery	740	foreman, washery (coal mine)	641	foreman stoker, shift	951
foreman, luggage	706	foreman, washery (coke		foreman surfaceman (railway)	561
foreman, main layer (gas		works)	681	foreman surfaceman (road)	561
works)	692	foreman, wash-house	918	foreman ticket collector	705
foreman, main pipe (gas		foreman, waste	692	foreman ticket examiner	705
works)	692	foreman, water gas	692	foreman washer	641
foreman, mains (electricity		foreman, wateride	740	foreman way man	561
supply)	692	foreman, wharf	740	foreman wool sorter	352
foreman, mantle maintenance	692	foreman, wool	332	foreman yarn packer	940
foreman, meat	700	foreman, working (contra-		foremistress	401
foreman (metal mine)	651	tor's)	561	fore overman (colliery)	641
foreman, milk	706	foreman, working (railways)	706	fore overman (metaliferous	
foreman, mill (cement)	691	foreman, working (tobacco		mine)	651
foreman, mill room (fur skins)	691	pipes, not clay)	681	fore part bitter	429
foreman, mine	331	foreman, workshop (optical		fore part porter	429
foreman (mine and quarry		glass)	121	fore part porter	429
products)	691	foreman, yard (building and		fore part porter	429
foreman, mineral	704	contracting)	561	fore part porter	429
foreman, motor garage	716	foreman, yard (cartage con-		fore part porter	429
foreman, oil gas	692	tracting)	718	fore part porter	429
foreman, oil house	716	foreman, yard (leather dress-		fore part porter	429
foreman (onibus service)	151	ing)	331	fore part porter	429
foreman (other mine or		foreman, yard (metal mine)	651	fore part porter	429
quarry)	671	foreman, yard (mining)	716	fore part porter	429
foreman, oven	691	foreman, yard (railway)	704	fore part porter	429
foreman, painter's	591	foreman, yard (saw mill)	471	fore part porter	429
foreman, parcel	706	foreman ballast man	561	fore part porter	429
foreman, parcel post	706	foreman beater	359	fore part porter	429
foreman, passenger yard	691	foreman bleacher	380	fore part porter	429
foreman, paste lead	691	foreman bricklayer	561	fore part porter	429
foreman, pattern shop	471	foreman carder (felt)	353	fore part porter	429
foreman, permanent way	561	foreman card grinder	353	fore part porter	429
foreman, pit	641	foreman carpenter	471	fore part porter	429
foreman, pithead	641	foreman caster	180	fore part porter	429
foreman, pit top	641	foreman cattlemen	700	fore part porter	429
foreman, platelayer	561	foreman checker	700	fore part porter	429
foreman, platform	706	foreman clayburner	581	fore part porter	429
foreman, platform and		foreman clerk (railway)	939	fore part porter	429
general	706	foreman condolt cleaner	716	fore part porter	429
foreman, platform (carriers)	716	foreman cooper	471	fore part porter	429
foreman (ploughman)	623	foreman dock porter	740	fore part porter	429
foreman, plumbbers	164-169	foreman dresser	651	fore part porter	429
foreman, police	151	foreman dyer	359	fore part porter	429
foreman, public lighting	692	foreman engine cleaner	561	fore part porter	429
foreman, pumping station	692	foreman fat maker	151	fore part porter	429
foreman, purifier	692	foreman fat melter	151	fore part porter	429
foreman, quarry	671	foreman finisher	359	fore part porter	429
foreman, quay	740	foreman fish porter	706	fore part porter	429
foreman (rag sorting)	961	foreman hacker	359	fore part porter	429
foreman, railway carriage	716	foreman hauler	641	fore part porter	429
foreman, receiving office	706	foreman lawer	641	fore part porter	429
foreman, relaying	561	foreman horsekeeper	715	fore part porter	429
foreman, renewal gang	661	foreman horse leader	706	fore part porter	429
foreman, resort house	692	foreman joiner	471	fore part porter	429
foreman, river	692	foreman lampman	706	fore part porter	429
foreman, road	561	foreman lamp-room porter	706	fore part porter	429
foreman, rock	671	foreman lead mixer	691	fore part porter	429
foreman, running	700	foreman lighterman	738	fore part porter	429
foreman, running shed	700	foreman lime burner	691	fore part porter	429
foreman, screen	641	foreman lumper	749	fore part porter	429
foreman, scutcher	351	foreman maker-up	943	fore part porter	429
foreman, shed (leather dress-		foreman mauler	451	fore part porter	429
ing)	331	foreman mason	561	fore part porter	429
foreman, shed (railway)	700	foreman millhand	740	fore part porter	429
foreman, shed (tramways)	716	foreman of dry dock	740	fore part porter	429
foreman, shoemaker's	700	foreman of miners	671	fore part porter	429
foreman, ship	740	foreman of pumping station	692	fore part porter	429
foreman, shop (cooperage)	471	foreman of street works (con-		fore part porter	429
foreman, slag mill	561	tractor's)	561	fore part porter	429
foreman, soak-hearth	331			fore part porter	429
foreman, spell	151			fore part porter	429

	Code Number.		Code Number.		Code Number.
forger, drop	190	forksmith (agricultural, &c., forks)	190	frame attendant, drawing (weaving)	368
forger, drop stamp	190	forksmith (cycle)	190	frame attendant, tin	356
forger, edge tool	190	fork splitter (agricultural, &c., forks)	190	frame back tenter, intermediate (fly frames)	399
forger, file	190	fork strap maker	190	frame back tenter, roving	399
forger, flange	190	fork striker	190	frame bender, ship	399
forger, fly	190	fork truer-up	276	frame border (shipyard)	222
forger, fly presser	190	forlaine hand	149	frame brazer	262
forger, fork	190	forlaine, automatic body	254	frame brazer, chassis	262
forger, furniture	190	forlaine, bar	190	frame brazer (cycle)	262
forger, gimlet	190	forlaine, body	254	frame builder, chassis	210
forger, gold chain	190	forlaine, box	254	frame builder, cycle	229
forger, gun action	190	forlaine (beam)	254	frame builder (cycle)	229
forger, gun furniture	190	forlaine (beam)	254	frame builder (cycle)	229
forger, gun lock	190	forlaine, brass (press hand)	254	frame builder (cycle)	229
forger, gun work	190	forlaine, brass (spinning)	247	frame builder (cycle)	229
forger, harness	190	forlaine, brass tube	296	frame builder (cycle)	229
forger, hammer	190	forlaine, cable	318	frame cleaner (cycle)	279
forger, hammer (gun)	190	forlaine, coil	363	frame cleaner (vehicle)	599
forger, hand (cutlery)	190	forlaine, copper	276	frame doffer, ring	399
forger (hand or power)	190	forlaine, wire	378	frame doffer, roving	399
forger, harness hame	190	forlaine, filament	218	frame dobber (not silk)	366
forger, hoe	190	forlaine, fur	409	frame dobber, ring	366
forger, horse nail	190	forlaine, plate	302	frame dobber (silk)	371
forger, ingot	190	forlaine, rope	373	frame dresser	353
forger, iron	190	forlaine, storage battery	302	frame driller (plane-lathe)	250
forger, iron harness	190	forlaine, strand	373	frame driller (plane-portable tools)	231
forger, iron	190	forlaine, tube	373	frame driller, window (metal casements)	280
forger, knob	190	forlaine, tungsten	276	frame erector, chassis	210
forger, lance	190	forlaine, tungsten plate	276	frame erector (locomotive)	210
forger, machine	190	forlaine, wool	218	frame erector (ship building)	222
forger, machine bolt (machine forging)	190	forlaine, wool	218	frame filler (hatches)	149
forger, machine knife	190	form hardener	409	frame filler (sagger)	118
forger, magnet	190	form maker (cardboard box)	551	frame filler, sagger	118
forger, mounting	190	form maker (wood)	474	frame filler (soap)	159
forger, nail	190	form setter	551	frame finisher	416
forger, oilwork	190	Fortuna machine operator	414	frame fireman	171
forger, pocket blade	190	Fortuna skiver	414	frame fitter, bag	276
forger, pocket blade drop	190	fortune teller	899	frame fitter (cycle)	229
forger, rasp	190	forwarder (bookbinding)	532	frame fitter (locomotive)	210
forger, razor	190	forwarder (silk)	909	frame fitter (rolling stock)	210
forger, rib	190	forwarding agent	713	frame fitter (textile machinery)	210
forger, ring	190	founder acrotes	974	frame band, circular fabric	374
forger, saw file	190	founder masher	912	frame band, Cotton's patent	374
forger, scale beam	190	founder, aluminum	180	frame band (hoiery)	374
forger, scissor	190	founder, bell	180	frame band, Paget	374
forger (saw)	276	founder (blast furnace)	171	frame band, rotary	374
forger, scythe	190	founder, brass	180	frame maker (agricultural machinery)	474
forger, seal	190	founder, bronze	180	frame maker, bamboo furniture	486
forger, shackle	190	founder (copper smelting)	276	frame maker (basket chair, &c.)	472
forger, shot	190	founder (glass)	122	frame maker, bed (cabinet maker)	473
forger, shuttle spring	190	founder, letter	276	frame maker, bed (joiner)	473
forger, shuttle clip	190	founder, pipe	180	frame maker, chair	473
forger, spoke and shawl	190	founder (stereo)	276	frame maker, composition	485
forger, spinner	190	founder (type)	276	frame maker, curtain	473
forger, spike	190	founder (yellow metal)	180	frame maker (cycle)	254
forger, spring bar	190	founder's black maker	636	frame maker, eye	276
forger, spur	190	foundry filer	233	frame maker, garden	474
forger, steel component	190	foundry furnaceman, aluminum	188	frame maker, hair	428
forger, stiletto	190	foundry furnaceman, brass	184	frame maker, hood	276
forger, stirrup	190	foundry grinder	237	frame maker, horizontal	474
forger, sword blade	190	foundry labourer, aluminum	189	frame maker, looking glass	473
forger, table blade (hand)	190	foundry labourer (iron or steel foundry)	188	frame maker, machine	474
forger, tool	190	foundry labourer, roll	183	frame maker, mattress (wood)	474
forger, vice	190	foundryman	183	frame maker, mirror (not gilt)	473
forger, wrench	190	foundry tumbler	183	frame maker, optical	276
forge roller	178	foundry smith	279	frame maker, oval	473
forger's striker, edge tool	190	fontain pen case turner	603	frame maker, Oxford	485
forge shaver	279	fontain pen fitter	603	frame maker, Oxon	485
forge slinger	369	fontain pen maker	603	frame maker, perambulator	473
forge smith, hand	190	fontain pen polisher	603	frame maker, photo (glass)	276
forge striker	190	fontain pen turner	603	frame maker, photo (leather)	348
forge striker, hand	190	four-bitte cutter	429	frame maker, photo (not leather)	388
forget outter	429	four-bitte panther	429	frame maker, photograph	388
forge woman	279	four-outter hand	429	frame maker, picture	498
forge worker, drop	190	fouré dipper	485	frame maker, resistant	322
fork builder, cycle	229	fourth bobbin and 8y frame tenter	363	frame maker, show-wood	473
fork builder (cycle making)	229	fourth engineer	734	frame maker, spectacle	276
fork outter	229	fourth officer	733	frame maker, spectacle (optical works)	322
fork outter, steel	229	fowl dresser	448	frame maker, staff-ox	473
fork drawer	190	fowl trasser	448	frame maker, tennis racket	486
forker, brace	699	foxer	699	frame maker, umbrella	416
forker, coils	699	fox beat man	738	frame maker (umbrella, parasol)	416
forker (puddling furnace)	172	frail maker	472	frame maker (watch)	324
forker (steel sheets)	279	frame (bolt, rivet)	279	frame maker (wood, chair)	473
forker, wood	389	frame and fork builder	229	frame maker, wire	276
fork finisher	276	frame assembler, hood	658	frame maker, wire mattress	474
fork forger	190	frame assembler (perambulator hood)	658	frame maker (wooden fixture box)	888
fork balfer	228	frame assembler, perambulator hood	658		
fork maker, coils	190	frame attendant, drawing (cotton, flax, hemp spinning)	363		
fork maker, iron (textile machinery)	276				
fork maker, tuning	276				
fork maker, web	276				
fork moulder	190				
fork putter-together	228				
fork putter-together, steel	228				

Code Number.		Code Number.		Code Number.	
frame man (rope) ...	373	frame winder (cinema films)...	527	front rover (gate) ...	363
frame man (soap) ...	159	frame winder, clearing ...	367	front sawyer ...	357
frame man, ground ...	704	frame worker, hand ...	375	front side boy ...	519
frame man, rolling ...	343	frame worker, iron (piano) ...	648	front side hand ...	279
frame marker (piano) ...	648	frame worker, knitting ...	374	front side laborer ...	279
frame minder, cheating ...	371	frame worker (piano) ...	645	frontman (fishmonger's, fruit- store's, &c.) ...	775
frame minder, copying ...	371	frame worker, power ...	374	front stitcher (corsets) ...	409
frame minder, drawing ...	363	frame worker (rope) ...	366	front tender, card (cotton)...	363
frame minder, roving ...	363	framework hand (billiard table) ...	473	front tender (cotton draw frame) ...	363
frame overlooker (card room) ...	353	frame work knitter (elastic hosiery) ...	374	front tongman ...	278
frame overlooker, speed ...	338	frame work knitter, hand ...	375	front cog maker ...	190
frame polisher (cycle) ...	345	frame work knitter (machine) ...	374	front cog screwer ...	209
framer, bag ...	345	frame work maker (billiard table) ...	473	fronter, carver's ...	485
framer, busomlar ...	322	framer, hmr ...	395	fronter (glass) ...	126
framer, calico ...	409	framer, bolt ...	496	fronter (wood) ...	485
framer (chair) ...	473	framer, briser ...	279	front nail maker ...	190
framer, chair ...	473	framer (metal trades) ...	279	front screw maker ...	190
framer, chair cross ...	473	framer (tobacco pipe, not clay)	688	front stud maker ...	190
framer (cailly) ...	947	framer (tobacco pipe, not clay)	688	front stud screwer ...	200
framer, curtain ...	918	framing machine worker (bolt, rivet) ...	279	frue vanner ...	056
framer, field glass ...	322	freighted man ...	024	fruit and vegetable preserver ...	449
framer, first ...	363	freeman (River Thames) ...	736	fruit boiler (flour confec- tionery) ...	446
framer, lap ...	363	freemason's apron maker ...	239	fruit boiler (jam making) ...	436
framer (laundry) ...	016	freer, action ...	210	fruit bottler ...	448
framer (metal, mine) ...	016	freer, arm shaft ...	210	fruit canner ...	448
framer, optical ...	322	freer, gun lock ...	239	fruit canning laborer ...	449
framer (optical instruments) ...	372	freer, lock (gun) ...	239	fruit carver ...	449
framer, picture ...	485	freestone quarryer ...	672	fruit chaser ...	449
framer, riveted bag ...	345	free wheel fitter (cycle)	210	fruit cleaner ...	770
framer, rule ...	473	freewheel-off ...	925	fruit essence maker ...	458
framer, seat ...	473	freight clerk ...	722	fruit farmer ...	011
framer, second ...	363	freight goods ...	722	fruit farm laborer ...	025
framer (sheep skin) ...	316	freight canvasser ...	724	fruit grater ...	013
framer (shipyard) ...	222	freight shunter ...	704	fruit grower (under glass) ...	013
framer (silk dressing) ...	363	freight tramcar driver ...	722	fruit jelly maker ...	436
framer, third ...	363	French action maker (piano) ...	642	fruit man, and syrup maker ...	025
framer (wool spinning) ...	365	French cleaner ...	929	fruit man (farm) ...	013
framer, writing, date ...	363	French confectionery maker ...	435	fruit man, head (farm) ...	013
framer dresser, first ...	363	French end caster ...	163	fruit measure maker ...	496
framer dresser, pointer ...	363	French corn player ...	586	fruit mixer ...	449
framer dresser, roller ...	363	French polisher ...	473	fruit picker (in factory) ...	036
framer dresser, second ...	363	French polish maker ...	458	fruit picker (on farm) ...	036
framer dresser, short ...	363	French seamer ...	419	fruit plantation laborer ...	759
framer dresser, third ...	363	French spinner ...	385	fruit porter ...	448
frame Sawyer ...	481	French cutter ...	481	fruit preserver ...	449
frame sawyer, vertical ...	589	French glazier ...	569	fruit presser ...	449
frame shap, second ...	589	French sawyer ...	481	fruit pudding maker ...	448
frame setter, car ...	210	French worker ...	481	fruit pulper ...	448
frame setter (cycle) ...	229	French glaser ...	518	fruit roller ...	777
frame setter (metallic bed- stead) ...	276	French knitter ...	496	fruit preserving ...	449
frame setter, ship ...	222	French mould turner ...	406	fruit sprayer ...	025
frame shooter (silk factory) ...	474	French fringer ...	419	fruit still keeper ...	777
frame shop strainblender ...	190	French fringer (carpet, rug, &c.) ...	419	fruit timer ...	448
framesmith, firebox ...	190	French fringer, towel ...	419	fruit washer ...	448
framesmith (forging) ...	190	French fringer, twist ...	398	fryer, fish ...	929
framesmith, parabolator ...	276	French fritter ...	109	fridge hot band ...	522
frame smith (perambulator head) ...	276	French frit wheel ...	139	fridge, cloth ...	429
frame smith, stern ...	180	French frizer ...	336	fridge, wheel ...	429
frame spinner, patent doffing ...	365	French frizette maker ...	422	fridge wheel, edge ...	429
frame spinner, ring ...	365	French frizette maker ...	422	fridge wheel, edge ...	429
frame spinner, thread ...	365	French frizette maker ...	422	fridge wheel, edge ...	429
frame starter ...	399	French frizette maker ...	422	fridge wheel, edge ...	429
frame strainer, artist's ...	485	French frizette maker ...	422	fridge wheel, edge ...	429
frame strainer, picture ...	485	French frizette maker ...	422	fridge wheel, edge ...	429
frame stripper, soap ...	159	French frizette maker ...	422	fridge wheel, edge ...	429
frame stripper (soap making) ...	159	French frizette maker ...	422	fridge wheel, edge ...	429
frame tender, constant draw ...	399	French frizette maker ...	422	fridge wheel, edge ...	429
frame tender, back draw ...	399	French frizette maker ...	422	fridge wheel, edge ...	429
frame tender, cap ...	366	French frizette maker ...	422	fridge wheel, edge ...	429
frame tender, cheating ...	371	French frizette maker ...	422	fridge wheel, edge ...	429
frame tender, clearing ...	367	French frizette maker ...	422	fridge wheel, edge ...	429
frame tender, copying ...	371	French frizette maker ...	422	fridge wheel, edge ...	429
frame tender, doubling ...	363	French frizette maker ...	422	fridge wheel, edge ...	429
frame tender, drawing (cotton)	363	French frizette maker ...	422	fridge wheel, edge ...	429
frame tender, drawing (roten) ...	363	French frizette maker ...	422	fridge wheel, edge ...	429
frame tender, fly (flyer) ...	363	French frizette maker ...	422	fridge wheel, edge ...	429
frame tender, front draw ...	363	French frizette maker ...	422	fridge wheel, edge ...	429
frame tender, hosiery ...	374	French frizette maker ...	422	fridge wheel, edge ...	429
frame tender, inter ...	363	French frizette maker ...	422	fridge wheel, edge ...	429
frame tender, intermediate ...	363	French frizette maker ...	422	fridge wheel, edge ...	429
frame tender, jack ...	363	French frizette maker ...	422	fridge wheel, edge ...	429
frame tender, Jacquard ...	370	French frizette maker ...	422	fridge wheel, edge ...	429
frame tender, ring ...	365	French frizette maker ...	422	fridge wheel, edge ...	429
frame tender, roving ...	363	French frizette maker ...	422	fridge wheel, edge ...	429
frame tender, slubbing (cotton)	363	French frizette maker ...	422	fridge wheel, edge ...	429
frame tender, slubbing (wool combing) ...	363	French frizette maker ...	422	fridge wheel, edge ...	429
frame tender, slab (wool comb- ing) ...	363	French frizette maker ...	422	fridge wheel, edge ...	429
frame tender, speed ...	363	French frizette maker ...	422	fridge wheel, edge ...	429
frame tender, textile mill ...	363	French frizette maker ...	422	fridge wheel, edge ...	429
frame tender, twisting ...	366	French frizette maker ...	422	fridge wheel, edge ...	429
frame turner (bolters, tanks) ...	222	French frizette maker ...	422	fridge wheel, edge ...	429
frame turner (ship) ...	222	French frizette maker ...	422	fridge wheel, edge ...	429
frame turner, ship ...	222	French frizette maker ...	422	fridge wheel, edge ...	429

	Code Number.		Code Number.		Code Number.
tur carrotter	333	furnaceman (glass)	122	furniture forger (gun furni- ture)	198
tur cleaner	428	furnaceman, guide rolling	171	furniture joiner	241
tur clearer	428	furnaceman, improving	171	furniture maker, antique	473
tur cutter (glove making)	411	furnaceman, leading	171	furniture maker, art	473
tur cutter (hats)	406	furnace man, lead pencil	104	furniture maker, bamboo	473
tur dresser	338	furnace man (lead shot)	183	furniture maker, bentwood	473
tur feeder	438	furnace man, lead (white lead works)	171	furniture maker, brass	108
tur feeder-up	428	furnaceman, litharge	171	furniture maker, electrical	221
tur filler (carpet)	367	furnaceman, Manby's patent	171	furniture maker, pottery	108
tur forner	409	furnaceman, melting	171	furniture maker, wicker	473
tur garment maker	332	furnace man (metal mine)	171	furniture painter	593
tur glove cutter	411	furnace man (metal mine)	171	furniture polish maker	151
tur hat maker	332	furnaceman, mill (copper)	171	furniture polish mixer	151
tur lining	411	furnaceman, nickel	171	furniture porter	731
tur liner (hats)	428	furnaceman, open hearth	171	furniture remover (contractor)	731
furnace attendant (blast furna- ce)	279	furnaceman (orange lead)	143	furniture remover (porter)	941
furnace attendant (cupola)	182	furnaceman, ore	171	furniture repairer	473
furnace bricklayer	565	furnaceman (paints and colours)	143	furniture van packer	333
furnace builder	565	furnaceman, plate	171	furniture worker	333
furnace caldner	171	furnaceman (precious metals)	298	furniture worker	333
furnace charger, basic works	279	furnaceman, red lead	143	furniture worker	333
furnace charger, blast	279	furnaceman, refining	171	furniture worker	333
furnace charger (blast furnace)	279	furnaceman, refining (copper)	171	furniture worker	333
furnace charger (iron or steel foundry)	182	furnaceman, roasting (lead)	171	furniture worker	333
furnace door man	279	furnaceman, roasting (lead)	171	furniture worker	333
furnace feeder	279	furnaceman, revolving	171	furniture worker	333
furnace filler (blast furnace)	279	furnaceman, roller (copper ore)	171	furniture worker	333
furnace filler (gas works)	699	furnaceman, rod mill	171	furniture worker	333
furnace fireman, annealing	279	furnaceman (rolling mill or steel forge)	171	furniture worker	333
furnace fireman (metal trades)	279	furnaceman, rotary	171	furniture worker	333
furnace first hand (fine extrac- tion)	171	furnaceman, salt cake	143	furniture worker	333
furnace filter	210	furnaceman, sand (steel works)	279	furniture worker	333
furnace gauger (blast furnace)	279	furnaceman, scrap	171	furniture worker	333
furnace hand, blast (blower)	279	furnaceman, sheet mill	171	furniture worker	333
furnace hand, blast (skilled)	279	furnace man, Siemens-Martin	171	furniture worker	333
furnace hand, improving	279	furnaceman (slag and slag wood)	171	furniture worker	333
furnace hand, reducing	279	furnaceman, sleeper mill	171	furniture worker	333
furnace hand, softening	279	furnaceman, softening	171	furniture worker	333
furnace heater, vertical	171	furnaceman, spelter	171	furniture worker	333
furnace heater, horizontal	279	furnaceman, spindle	171	furniture worker	333
furnace helper, ball	279	furnaceman, steel	171	furniture worker	333
furnace helper, blast	279	furnaceman, steel prem (forge)	171	furniture worker	333
furnace helper, improving	279	furnaceman, sulphate of soda	143	furniture worker	333
furnace helper, vertical plate	279	furnaceman, sulphuric acid	143	furniture worker	333
furnace keeper, assistant	171	furnaceman, Talbot (first hand)	171	furniture worker	333
furnace keeper, blast	171	furnaceman, Talbot (second hand)	171	furniture worker	333
furnace keeper (blast furnace)	171	furnaceman, Talbot (third hand)	171	furniture worker	333
furnace keeper (glass furnace)	171	furnaceman, tyre (rolling stock)	278	furniture worker	333
furnace liner	122	furnaceman, underhand	171	furniture worker	333
furnaceman, acid	365	furnaceman, underhand ball	172	furniture worker	333
furnaceman, air	171	furnaceman, underhand swari	172	furniture worker	333
furnaceman, alkali	143	furnaceman, wet process (copper)	171	furniture worker	333
furnaceman, alloy	171	furnace man (whiting works)	092	furniture worker	333
furnaceman, alum	143	furnaceman's wire rod mill	092	furniture worker	333
furnaceman, aluminium found- ry	182	furnaces poker	699	furniture worker	333
furnaceman, annealing (gas reoler)	171	furnace pot maker	103	furniture worker	333
furnaceman, anode (copper)	171	furnace repairer	565	furniture worker	333
furnaceman, antimony	171	furnace slagger, blast (copper)	278	furniture worker	333
furnaceman, arsenic	171	furnace slagger (iron and steel manufactures)	278	furniture worker	333
furnaceman, ash	143	furnace stoker (boiler)	351	furniture worker	333
furnaceman, axle	143	furnace stoker (metal trades)	279	furniture worker	333
furnaceman, ball (chemical)	143	furnace stoker (pottery)	199	furniture worker	333
furnaceman, ball (puddling)	172	furnace tender, blast	171	furniture worker	333
furnaceman, black ash	143	furnace tender (iron or steel foundry)	182	furniture worker	333
furnaceman, blast (cupola)	182	furnace watcher	171	furniture worker	333
furnaceman (blast furnace)	171	furnace weigher	279	furniture worker	333
furnaceman, blast (skilled)	171	furnace worker, German's patent	171	furniture worker	333
furnaceman (boiler)	951	furnace worker, Talbot	171	furniture worker	333
furnace		furnished lake maker (fishing tackle)	688	furniture worker	333
furnaceman, brass foundry	184	furnisher, antique	770	furniture worker	333
furnaceman, house	220	furnisher, factory	770	furniture worker	333
furnaceman, case hardening	220	furnisher, funeral	825	furniture worker	333
furnaceman, cast house	182	furnisher, mill	770	furniture worker	333
furnaceman, cast house assist- ant	279	furnisher (wholesale, retail leading)	770	furniture worker	333
furnaceman, casthouse (yellow metal)	194	furniture assembler	582	furniture worker	333
furnaceman (chemicals)	143	furniture fitter (cork bats)	426	furniture worker	333
furnaceman, chrome ore	143	furniture fitter (wood)	426	furniture worker	333
furnaceman, cork spring	171	furniture fitter (wood)	426	furniture worker	333
furnaceman, cobalt	171	furniture fitter (wood)	426	furniture worker	333
furnaceman (colliery)	947	furniture fitter (wood)	426	furniture worker	333
furnaceman, cupel	171	furniture fitter (wood)	426	furniture worker	333
furnaceman, cupola	171	furniture fitter (wood)	426	furniture worker	333
furnaceman, drop stamp	171	furniture fitter (wood)	426	furniture worker	333
furnaceman, electric (chemi- cal)	143	furniture fitter (wood)	426	furniture worker	333
furnaceman, electric (found- ry)	182	furniture fitter (wood)	426	furniture worker	333
furnaceman, forehead	171	furniture fitter (wood)	426	furniture worker	333
furnaceman, forge	171	furniture fitter (wood)	426	furniture worker	333
furnaceman (foundry)	182	furniture fitter (wood)	426	furniture worker	333
furnaceman, gas	171	furniture fitter (wood)	426	furniture worker	333
furnaceman, German's patent	171	furniture fitter (wood)	426	furniture worker	333

Code Number		Code Number		Code Number	
gaiter (spinning frame) ...	399	gantry contractor ...	164-9	gas maker (producer gas) ...	953
gaiter-in ...	368	gantry dropman (blast fur nace) ...	278	gas maker, water ...	953
gaiter maker (not leather) ...	419	gantry drop man (stationary engine) ...	950	gasman (aerated or mineral waters) ...	458
gaitsers maker ...	348	gantry engine man ...	950	gas man, assistant ...	279
gaiter-up ...	399	gantry lift man ...	950	gasman (blast furnace) ...	171
gal driver ...	043	gantryman (blast furnace) ...	276	gasman (brewery) ...	459
galley boy ...	757	gantry man (stationary engine) ...	950	gas man, bye - turn (steel works) ...	953
galloway potter ...	043	garage foreman ...	716	gasman (dock) ...	746
gall reader ...	148	garage foreman, motor ...	718	gas man (gas undertaking) ...	698
galvanic apparatus fitter ...	399	garage hand ...	729	gas man, oil ...	698
galvanic apparatus maker ...	399	garage warden ...	921	gas man (producer gas) ...	953
galvanized roofing erector ...	226	garden architect ...	016	gas man (railway) ...	709
galvanizer ...	234	gardener ...	013	gasman, sparhead (blast furnace) ...	171
galvaniser, pipe ...	234	gardener, cemetery ...	013	gas mon, water ...	955
galvaniser, tube ...	254	gardener, day ...	016	gas mantle dipper ...	669
galvaniser, wire ...	234	gardener, domestic ...	013	gas mantle knitter ...	374
galvaniser, wire setting ...	234	gardener, exotic ...	013	gas mantle maker ...	689
galvaniser's assistant ...	399	gardener, jobbing ...	013	gas mantle scissorer ...	688
galvanometer assembler ...	399	gardener, kitchen ...	013	gas mantle sewer ...	419
galvanometer maker ...	399	gardener, landscape ...	016	gas meter bellows maker ...	210
gambrel maker ...	499	gardener, market ...	013	gas meter fitter ...	210
game dresser ...	446	gardener, orchard ...	013	gas meter maker, wet ...	264
game farmer ...	011	gardener's boy ...	025	gas meter maker, wet ...	264
gamekeeper ...	910	garden frame maker ...	474	gas meter painter ...	592
gamekeeper operator ...	939	garden pot maker ...	105	gas meter prover ...	278
gamesters ...	039	garden seat and furniture maker ...	474	gas meter repairer ...	689
gang boy ...	581	garment cleaner ...	929	gasometer examiner ...	953
ganget (artificial stone and cement) ...	091	garment inspector ...	401	gas operator, water ...	953
ganget, ballast ...	561	garment maker, fur ...	392	gas pitman ...	970
ganget, ballast loading ...	561	garment maker (knitter) ...	374	gas plant attendant ...	953
ganget, bridge tarring ...	561	garment maker, rainproof ...	419	gas plant fireman ...	953
ganget (coal mine) ...	043	garment maker, rubber ...	606	gas producer ...	953
ganget (coals oven) ...	081	garment maker, waterproof (rubber) ...	606	gas producer attendant (pre- ductor gas) ...	699
ganget (contractor's) ...	561	garment maker, waterproof (sewer) ...	609	gas producer band ...	953
ganget, drainage ...	561	garment passer ...	401	gas producer man ...	953
ganget, drum house ...	561	garment pattern cutter ...	402	gas regulator ...	088
ganget, electrification ...	561	garment presser ...	999	gas regulator's assistant ...	089
ganget, extra ...	561	garment reviewer ...	862	gas remover man (iron and steel works) ...	171
ganget, filter (waterworks) ...	692	garment machine operator ...	862	gas ring driller ...	200
ganget, flying squad ...	561	garment maker ...	419	gasser (cloth, fustian, lace) ...	398
ganget, foreman quay ...	740	garbman ...	022	gasser (yarn) ...	398
ganget, forest ...	016	gas and candle fittings adapter ...	305	gasers' overcloser ...	356
ganget (harbour, dock, &c.) ...	740	gas and oil engine fitter ...	210	gas singeing man ...	388
ganget, highway ...	561	gas and water engineer ...	235	gassing man, cobalt ...	148
ganget, length (railway) ...	561	gasbar maker ...	698	gas stoker (gas undertaking) ...	953
ganget (metalliferous mine) ...	081	gas block maker ...	454	gas stoker (producer gas) ...	953
ganget, navy ...	561	gas burner ...	486	gas stove back maker ...	102
ganget (non - metalliferous mine or quarry) ...	071	gas burner drawer ...	254	gas stove fitter ...	235
ganget, oil gas (gas works) ...	692	gas burner driller ...	210	gas stove inspector (gas works) ...	692
ganget, paviers' ...	561	gas burner reducer ...	254	gas tester (gas works) ...	696
ganget, railway (contract work) ...	561	gas company's collector ...	799	gas tube cutter-off ...	273
ganget (railway) (pistolaying) ganget, relaying slip and drainage ...	577	gas cylinder filler ...	148	gas welder ...	240
ganget, retort house (gas works) ...	692	gas cylinder tester ...	146	gas winder ...	396
ganget, road ...	561	gas engine attendant ...	950	gas works labourer ...	699
ganget, sand loading ...	561	gas engine (gas works) ...	690	gate and railings fitter (iron) gate fitter (iron) ...	278
ganget, slipman and drainage ganget, slipman and drainer ganget (tramways) ...	716	gas engineer (not gas works) gas engine fitter ...	210	gate fitter (iron) ...	276
ganget, walking (pavior) ...	561	gas filler ...	709	gate fitter, iron ...	276
ganget, water gas ...	692	gas filler, oil ...	709	gate keeper (coal mine) ...	704
ganget in charge of goods ganget ...	706	gas fire fitter ...	285	gate keeper (factory or works) gate keeper (level crossing) gate keeper, lock ...	962
ganget band (telegraph, tele- phone) ...	319	gas fire fitter maker ...	102	gate keeper, pier ...	699
gang labourer, sailor ...	699	gas fitter ...	953	gate keeper, pleasure pier ...	699
gang labourer, shore ...	699	gas fitter, radiant maker ...	172	gatekeeper, turpentine ...	729
gangman (gas) ...	043	gas fitter's labourer ...	216	gatekeeper and pointman ...	184
gang man (on farm) ...	024	gas fitter's mate ...	216	gate maker ...	674
gang man (railway) ...	577	gas foreman ...	709	gateman (coal mine) ...	704
gang man, shore ...	699	gas fuel maker (adhesive) gas fuel maker (fireclay) ...	102	gate man, dock ...	749
gang man (telegraph, tele- phone) ...	319	gas furnaceman ...	172	gate man (electric train) gate man (entertainment) ...	702
gang mender ...	015	gas holder ...	391	gate man (level crossing) gateman (level crossing) ...	704
gang minder ...	043	gas holder erector ...	992	gate man, lock ...	704
gang rider ...	740	gas holder examiner ...	992	gate man, lock ...	704
gangman (harbour, dock, &c.) ...	740	gas holder fitter ...	992	gateman, porter ...	704
gangman (railway) ...	577	gas house labourer ...	699	gateman, relief ...	704
gangwayman, den ...	745	gas house man ...	691	gateman, signal ...	704
gangwayman, rail ...	745	gas inspector ...	709	gateman (ticket collector) ...	705
gang woman ...	024	gas labourer ...	699	gateman (timekeeper) ...	962
ganister breaker ...	699	gas lantern fitter ...	216	gateman and signalman ...	704
ganister cracks ...	069	gas lighter (gas works) gas lighter (street) ...	992	gate ticket examiner ...	716
ganister drier ...	078	gas line man (railway) ...	295	gatewoman ...	644
ganister fitter ...	078	gas line man (railway) ...	295	gatherer, bobbin (cotton) ...	399
ganister grinder ...	099	gas main man ...	699	gatherer, bobbin (silk) ...	399
ganister maker ...	099	gas maker, acetone ...	954	gatherer (bookbinder's) ...	549
ganister miner ...	078	gas maker (coal gas) ...	699	gatherer, candle ...	699
ganister pug grinder ...	099	gas maker, ketal ...	147	gatherer, fern ...	039
ganister quarrier ...	078	gas maker, nitrous oxide ...	699	gatherer, fly ...	129
ganister rock getter ...	099	gas maker, oil ...	699	gatherer (glass) ...	129
ganister roller ...	047	gas maker (oil gas, water gas) ...	699	gatherer, glass ...	039

	Code Number.		Code Number.		Code Number.
gatherer, help ...	039	gun grinder ...	538	guzzer (finishing) ...	381
gatherer (leather dressing) ...	338	gunning machine operator ...	414	guzzler ...	043
gatherer, machine bottle ...	125	gun moulder ...	284	guzzling machine attendant ...	381
gatherer, moss ...	039	gun polisher ...	538	(dyeing) ...	278
gatherer, mussel ...	005	gun ring maker ...	284	gig maker (textile machinery) ...	043
gatherer, oyster ...	119	gun setter ...	284	gig runner ...	344
gatherer (pottery) ...	399	gunsmith ...	538	gig saddle ...	394
gatherer, quill ...	399	gunsmithing machine minder ...	745	gig tender ...	282
gatherer, rag ...	399	general cargo worker ...	900	gilder, best ...	278
gatherer, reed ...	278	general (domestic) ...	900	gilder, blade (sword) ...	538
gatherer, scrap (shipbuilding) ...	278	general (farm) ...	900	gilder (book binding) ...	538
gatherer, scrap (tin boxes, do.) ...	278	general foreman (building trades) ...	501	gilder, book edge ...	538
gatherer, seaweed ...	039	general foreman (railway) ...	501	gilder, card ...	538
gatherer, reeds ...	399	general hand (bookbinding) ...	532	gilder, card edge ...	538
gatherer, spool ...	399	general hand (domestic) ...	900	gilder, composition ...	538
gatherer, starch ...	449	general hand (dressmaking) ...	405	gilder, edge (bookbinder's) gilder (electro-deposition) ...	225
gatherer, watercross ...	039	general hand (floor comfort- tensory) ...	405	gilder (glass) ...	582
gatherer, web ...	399	general hand (glass) ...	139	gilder (house decoration) ...	138
gatherer, wrinkle ...	000	general hand (hair dressing) ...	820	gilder (lamp lustre) ...	587
gatherer (wool) ...	399	general hand sewer ...	419	gilder (lead pencil) ...	335
gatherer, wool fly ...	278	general inside hand (organ) ...	498	gilder, leather ...	335
gauge checker ...	585	general inside hand (pipe organ) ...	546	gilder, metal ...	538
gauge keeper (waterworks) ...	698	general inspector ...	024	gilder (paper staining) ...	262
gauge maker, pressure ...	322	general labourer (farm) ...	700	gilder, parcel ...	538
gauge maker, steam ...	322	general labourer (metal trades) ...	278	gilder, passe partout ...	108
gauge maker (tool maker) ...	285	general maid ...	900	gilder, printer's ...	278
gauge maker, tyre ...	285	general man ...	098	gilder (saw) ...	503
gauge plate maker ...	285	general manager (bank) ...	791	gilder (vehicles) ...	485
gauger (alcoholic liquor) ...	946	general manager (colliery) ...	040	gilder (wood) ...	282
gauger (bonded warehouse) ...	946	general manager (gas, water or electricity works) ...	690	gilder's assistant ...	239
gauger, bullet ...	278	general manager (metalliferous mine) ...	050	gill bar maker (textile machinery) ...	278
gauger, cartridge clip ...	278	general manager (gunnery company) ...	710	gill boxer (sift) ...	363
gauger (cartridges) ...	278	general manager (railway) ...	700	gill box feeder ...	363
gauger, cement ...	098	general manager (tramways) ...	710	gill box minder, finishing ...	363
gauger (crinoid) ...	148	general servant ...	300	gill box minder, spindle ...	363
gauger, friction tube ...	278	general smith ...	190	gill drawer ...	278
gauger, furnace (blast furnace) gauger (lamps) ...	318	general smith's striker ...	190	gill (motor radiators) ...	363
gauger (metal trades) ...	278	general superintendent ...	700	gill (rust silk) ...	363
gauger, mica ...	318	general traffic manager ...	700	gill (rifle) ...	363
gauger, operator (cartridges) ...	278	general weighman (puddling) generator maker ...	278	gill and finisher ...	278
gauger, plate ...	178	generator man ...	538	gill ...	629
gauger, plate mill ...	278	geographical draughtsman ...	528	gilling box overlooker (wool, worsted) ...	358
gauger, potato ...	024	George machinist (hosiery) ...	374	gilling machine minder (silk) gill leather maker ...	278
gauger (rolling mill) ...	278	German seamer ...	419	gill pin filler ...	278
gauger, spindle ...	024	German silver handle maker German silver smith ...	287	gill pin setter ...	278
gauger, spring (saw) ...	278	German's patent furnace man German's patent furnace worker ...	171	gill rove ...	363
gauger, spring (steelworks) ...	698	gastner operator ...	672	gill setter (wool, worsted) gill spinner ...	363
gauger, strip steel (penn) ...	278	getter, alabaster ...	672	gill stock maker ...	278
gauger, tin bar ...	278	getter, basalt ...	672	gill tender ...	363
gauger, tyre ...	278	getter, blue rock ...	672	gill ...	538
gauger (tyre mill) ...	074	getter, bush cylinder ...	669	gill lowdery maker ...	278
gauger, valve's ...	074	getter, bottom ...	672	gillet forger ...	190
gaus maker, metal ...	289	getter, cinder ...	672	gimber, blade ...	370
gaus maker, wire ...	289	getter (clay, marl, do.) ...	672	gimber, head ...	370
gear brusher ...	399	getter, coal ...	672	gimp hook tier ...	588
gear carrier ...	054	getter (colliery) ...	672	gimping machine ...	949
gear cutter ...	200	getter (faller's earth) ...	672	gimp ladder ...	943
gear cutter, bevel ...	200	getter, granite ...	672	gimp maker ...	370
gear cutting machinist ...	200	getter, gaudier rock ...	672	gimp spinner ...	370
gear drawer ...	368	getter (metalliferous mine) getter, pitch ...	654	gimp winder ...	943
gear draw-out (iron and steel) ...	950	getter, rock (rock salt) getter (rock salt, barytes, do.) ...	076	gimber beer brewer ...	453
gear driver, screw ...	178	getter, rock (stone mine or quarry) ...	672	gimber blancher ...	449
gear fitter (cycle) ...	210	getter, shale ...	672	gimber grinder ...	449
gear fitter, speed ...	210	getter, shale (leat making) ...	672	gimney tender ...	043
gear forger, cast ...	190	getter, slag ...	672	gimpe ...	449
gear knitter ...	397	getter (slate) ...	672	gimpe, fish ...	449
gear machinist ...	397	getter, slate ...	672	gimpe, fish ...	449
gear maker ...	397	getter, stone (rock salt, barytes) ...	076	girder erector ...	226
german, coal (gas works) ...	599	getter (stone mine or quarry) getter-down (bell foundry) getter-down (brass foundry labourer) ...	039	girder erector, steel ...	226
german (coal hauling) ...	043	getter-off (puddling furnace) getter-off (cutlery) ...	278	girder planer ...	226
german (coal miners' tools, do.) ...	047	getter-up ...	278	girder riveter ...	250
german (dock) ...	749	getter, stone (rock salt, barytes) ...	076	girdle maker (machinery knitting) ...	374
german (rolling mill) ...	278	getter, turf ...	039	girl messenger (Post Office) girl probationer (Post Office) girl maker ...	756
german manipulator ...	278	getter-down (bell foundry) getter-down (brass foundry labourer) ...	185	girl messenger (Post Office) girl probationer (Post Office) girl maker ...	344
german roller ...	185	getter-off (diesel) getter-off (puddling furnace) getter-up (cutlery) ...	429	girl messenger (Post Office) girl probationer (Post Office) girl maker ...	344
german ringer ...	399	getter-off (diesel) getter-off (puddling furnace) getter-up (cutlery) ...	429	girl messenger (Post Office) girl probationer (Post Office) girl maker ...	344
german sorter ...	399	getter-off (diesel) getter-off (puddling furnace) getter-up (cutlery) ...	429	girl messenger (Post Office) girl probationer (Post Office) girl maker ...	344
german yarnier ...	399	getter-off (diesel) getter-off (puddling furnace) getter-up (cutlery) ...	429	girl messenger (Post Office) girl probationer (Post Office) girl maker ...	344
german yarnier ...	399	getter-off (diesel) getter-off (puddling furnace) getter-up (cutlery) ...	429	girl messenger (Post Office) girl probationer (Post Office) girl maker ...	344
german yarnier ...	399	getter-off (diesel) getter-off (puddling furnace) getter-up (cutlery) ...	429	girl messenger (Post Office) girl probationer (Post Office) girl maker ...	344
german yarnier ...	399	getter-off (diesel) getter-off (puddling furnace) getter-up (cutlery) ...	429	girl messenger (Post Office) girl probationer (Post Office) girl maker ...	344
german yarnier ...	399	getter-off (diesel) getter-off (puddling furnace) getter-up (cutlery) ...	429	girl messenger (Post Office) girl probationer (Post Office) girl maker ...	344
german yarnier ...	399	getter-off (diesel) getter-off (puddling furnace) getter-up (cutlery) ...	429	girl messenger (Post Office) girl probationer (Post Office) girl maker ...	344
german yarnier ...	399	getter-off (diesel) getter-off (puddling furnace) getter-up (cutlery) ...	429	girl messenger (Post Office) girl probationer (Post Office) girl maker ...	344
german yarnier ...	399	getter-off (diesel) getter-off (puddling furnace) getter-up (cutlery) ...	429	girl messenger (Post Office) girl probationer (Post Office) girl maker ...	344
german yarnier ...	399	getter-off (diesel) getter-off (puddling furnace) getter-up (cutlery) ...	429	girl messenger (Post Office) girl probationer (Post Office) girl maker ...	344
german yarnier ...	399	getter-off (diesel) getter-off (puddling furnace) getter-up (cutlery) ...	429	girl messenger (Post Office) girl probationer (Post Office) girl maker ...	344
german yarnier ...	399	getter-off (diesel) getter-off (puddling furnace) getter-up (cutlery) ...	429	girl messenger (Post Office) girl probationer (Post Office) girl maker ...	344
german yarnier ...	399	getter-off (diesel) getter-off (puddling furnace) getter-up (cutlery) ...	429	girl messenger (Post Office) girl probationer (Post Office) girl maker ...	344
german yarnier ...	399	getter-off (diesel) getter-off (puddling furnace) getter-up (cutlery) ...	429	girl messenger (Post Office) girl probationer (Post Office) girl maker ...	344
german yarnier ...	399	getter-off (diesel) getter-off (puddling furnace) getter-up (cutlery) ...	429	girl messenger (Post Office) girl probationer (Post Office) girl maker ...	344
german yarnier ...	399	getter-off (diesel) getter-off (puddling furnace) getter-up (cutlery) ...	429	girl messenger (Post Office) girl probationer (Post Office) girl maker ...	344
german yarnier ...	399	getter-off (diesel) getter-off (puddling furnace) getter-up (cutlery) ...	429	girl messenger (Post Office) girl probationer (Post Office) girl maker ...	344
german yarnier ...	399	getter-off (diesel) getter-off (puddling furnace) getter-up (cutlery) ...	429	girl messenger (Post Office) girl probationer (Post Office) girl maker ...	344
german yarnier ...	399	getter-off (diesel) getter-off (puddling furnace) getter-up (cutlery) ...	429	girl messenger (Post Office) girl probationer (Post Office) girl maker ...	344
german yarnier ...	399	getter-off (diesel) getter-off (puddling furnace) getter-up (cutlery) ...	429	girl messenger (Post Office) girl probationer (Post Office) girl maker ...	344
german yarnier ...	399	getter-off (diesel) getter-off (puddling furnace) getter-up (cutlery) ...	429	girl messenger (Post Office) girl probationer (Post Office) girl maker ...	344
german yarnier ...	399	getter-off (diesel) getter-off (puddling furnace) getter-up (cutlery) ...	429	girl messenger (Post Office) girl probationer (Post Office) girl maker ...	344
german yarnier ...	399	getter-off (diesel) getter-off (puddling furnace) getter-up (cutlery) ...	429	girl messenger (Post Office) girl probationer (Post Office) girl maker ...	344
german yarnier ...	399	getter-off (diesel) getter-off (puddling furnace) getter-up (cutlery) ...	429	girl messenger (Post Office) girl probationer (Post Office) girl maker ...	344
german yarnier ...	399	getter-off (diesel) getter-off (puddling furnace) getter-up (cutlery) ...	429	girl messenger (Post Office) girl probationer (Post Office) girl maker ...	344
german yarnier ...	399	getter-off (diesel) getter-off (puddling furnace) getter-up (cutlery) ...	429	girl messenger (Post Office) girl probationer (Post Office) girl maker ...	344
german yarnier ...	399	getter-off (diesel) getter-off (puddling furnace) getter-up (cutlery) ...	429	girl messenger (Post Office) girl probationer (Post Office) girl maker ...	344
german yarnier ...	399	getter-off (diesel) getter-off (puddling furnace) getter-up (cutlery) ...	429	girl messenger (Post Office) girl probationer (Post Office) girl maker ...	344
german yarnier ...	399	getter-off (diesel) getter-off (puddling furnace) getter-up (cutlery) ...	429	girl messenger (Post Office) girl probationer (Post Office) girl maker ...	344
german yarnier ...	399	getter-off (diesel) getter-off (puddling furnace) getter-up (cutlery) ...	429	girl messenger (Post Office) girl probationer (Post Office) girl maker ...	344
german yarnier ...	399	getter-off (diesel) getter-off (puddling furnace) getter-up (cutlery) ...	429	girl messenger (Post Office) girl probationer (Post Office) girl maker ...	344
german yarnier ...	399	getter-off (diesel) getter-off (puddling furnace) getter-up (cutlery) ...	429	girl messenger (Post Office) girl probationer (Post Office) girl maker ...	344
german yarnier ...	399	getter-off (diesel) getter-off (puddling furnace) getter-up (cutlery) ...	429	girl messenger (Post Office) girl probationer (Post Office) girl maker ...	344
german yarnier ...	399	getter-off (diesel) getter-off (puddling furnace) getter-up (cutlery) ...	429	girl messenger (Post Office) girl probationer (Post Office) girl maker ...	344
german yarnier ...	399	getter-off (diesel) getter-off (puddling furnace) getter-up (cutlery) ...	429	girl messenger (Post Office) girl probationer (Post Office) girl maker ...	344
german yarnier ...	399	getter-off (diesel) getter-off (puddling furnace) getter-up (cutlery) ...	429	girl messenger (Post Office) girl probationer (Post Office) girl maker ...	344
german yarnier ...	399	getter-off (diesel) getter-off (puddling furnace) getter-up (cutlery) ...	429	girl messenger (Post Office) girl probationer (Post Office) girl maker ...	344
german yarnier ...	399	getter-off (diesel) getter-off (puddling furnace) getter-up (cutlery) ...	429	girl messenger (Post Office) girl probationer (Post Office) girl maker ...	344
german yarnier ...	399	getter-off (diesel) getter-off (puddling furnace) getter-up (cutlery) ...	429	girl messenger (Post Office) girl probationer (Post Office) girl maker ...	344
german yarnier ...	399	getter-off (diesel) getter-off (puddling furnace) getter-up (cutlery) ...	429	girl messenger (Post Office) girl probationer (Post Office) girl maker ...	344
german yarnier ...	399	getter-off (diesel) getter-off (puddling furnace) getter-up (cutlery) ...	429	girl messenger (Post Office) girl probationer (Post Office) girl maker ...	344
german yarnier ...	399	getter-off (diesel) getter-off (puddling furnace) getter-up (cutlery) ...	429	girl messenger (Post Office) girl probationer (Post Office) girl maker ...	344
german yarnier ...	399	getter-off (diesel) getter-off (puddling furnace) getter-up (cutlery) ...	429	girl messenger (Post Office) girl probationer (Post Office) girl maker ...	344
german yarnier ...	399	getter-off (diesel) getter-off (puddling furnace) getter-up (cutlery) ...	429	girl messenger (Post Office) girl probationer (Post Office) girl maker ...	344
german yarnier ...	399	getter-off (diesel) getter-off (puddling furnace) getter-up (cutlery) ...	429	girl messenger (Post Office) girl probationer (Post Office) girl maker ...	344
german yarnier ...	399	getter-off (diesel) getter-off (puddling furnace) getter-up (cutlery) ...	429	girl messenger (Post Office) girl probationer (Post Office) girl maker ...	344
german yarnier ...	399	getter-off (diesel) getter-off (puddling furnace) getter-up (cutlery) ...	429	girl messenger (Post Office) girl probationer (Post Office) girl maker ...	344
german yarnier ...	399	getter-off (diesel) getter-off (puddling furnace) getter-up (cutlery) ...	429	girl messenger (Post Office) girl probationer (Post Office) girl maker ...	344
german yarnier ...	399	getter-off (diesel) getter-off (puddling furnace) getter-up (cutlery) ...	429	girl messenger (Post Office) girl probationer (Post Office) girl maker ...	344
german yarnier ...	399	getter-off (diesel) getter-off (puddling furnace) getter-up (cutlery) ...	429	girl messenger (Post Office) girl probationer (Post Office) girl maker ...	344
german yarnier ...	399	getter-off (diesel) getter-off (puddling furnace) getter-up (cutlery) ...	429	girl messenger (Post Office) girl probationer (Post Office) girl maker ...	344
german yarnier ...	399	getter-off (diesel) getter-off (puddling furnace) getter-up (cutlery) ...	429	girl messenger (Post Office) girl probationer (Post Office) girl maker ...	344
german yarnier ...	399	getter-off (diesel) getter-off (puddling furnace) getter-up (cutlery) ...	429	girl messenger (Post Office) girl probationer (Post Office) girl maker ...	344
german yarnier ...	399	getter-off (diesel) getter-off (puddling furnace) getter-up (cutlery) ...	429	girl messenger (Post Office) girl probationer (Post Office) girl maker ...	344
german yarnier ...	399	getter-off (diesel) getter-off (puddling furnace) getter-up (cutlery) ...	429	girl messenger (Post Office) girl probationer (Post Office) girl maker ...	344
german yarnier ...	399	getter-off (diesel) getter-off (puddling furnace) getter-up (cutlery) ...	429	girl messenger (Post Office) girl probationer (Post Office) girl maker ...	344
german yarnier ...	399	getter-off (diesel) getter-off (puddling furnace) getter-up (cutlery) ...	429	girl messenger (Post Office) girl probationer (Post Office) girl maker ...	344
german yarnier ...	399	getter-off (diesel) getter-off (puddling furnace) getter-up (cutlery) ...	429	girl messenger (Post Office) girl probationer (Post Office) girl maker ...	344
german yarnier ...	399	getter-off (diesel) getter-off (puddling furnace) getter-up (cutlery) ...	429	girl messenger (Post Office) girl probationer (Post Office) girl maker ...	344
german yarnier ...	399	getter-off (diesel) getter-off (puddling furnace) getter-up (cutlery) ...	429	girl messenger (Post Office) girl probationer (Post Office) girl maker ...	344
german yarnier ...	399	getter-off (diesel) getter-off (puddling furnace) getter-up (cutlery) ...	429	girl messenger (Post Office) girl probationer (Post Office) girl maker ...	344
german yarnier ...	399	getter-off (diesel) getter-off (puddling furnace) getter-up (cutlery) ...	429	girl messenger (Post Office) girl probationer (Post Office) girl maker ...	344
german yarnier ...	399	getter-off (diesel) getter-off (puddling furnace) getter-up (cutlery) ...	429	girl messenger (Post Office) girl probationer (Post Office) girl maker ...	344
german yarnier ...	399	getter-off (diesel) getter-off (puddling furnace) getter-up (cutlery) ...	429	girl messenger (Post Office) girl probationer (Post Office) girl maker ...	344
german yarnier ...	399	getter-off (diesel) getter-off (puddling furnace) getter-up (cutlery) ...	429	girl messenger (Post Office) girl probationer (Post Office) girl maker ...	344
german yarnier ...	399	getter-off (diesel) getter-off (puddling furnace) getter-up (cutlery) ...	429	girl messenger (Post Office) girl probationer (Post Office) girl maker ...	344
german yarnier ...	399	getter-off (diesel) getter-off (puddling furnace) getter-up (cutlery) ...	429	girl messenger (Post Office) girl probationer (Post Office) girl maker ...	344
german yarnier ...	399	getter-off (diesel) getter-off (puddling furnace) getter-up (cutlery) ...	429	girl messenger (Post Office) girl probationer (Post Office) girl maker ...	344
german yarnier ...	399	getter-off (diesel) getter-off (puddling furnace) getter-up (cutlery) ...	429	girl messenger (Post Office) girl probationer (Post Office) girl maker ...	344
german yarnier ...	399	getter-off (diesel) getter-off (puddling furnace) getter-up (cutlery) ...	429	girl messenger (Post Office) girl probationer (Post Office) girl maker ...	344
german yarnier ...	399	getter-off (diesel) getter-off (puddling furnace) getter-up (cutlery) ...	429	girl messenger (Post Office) girl probationer (Post Office) girl maker ...	344
german yarnier ...	399	getter-off (diesel) getter-off (puddling furnace) getter-up (cutlery) ...	429	girl messenger (Post Office) girl probationer (Post Office) girl maker ...	344
german yarnier ...	399	getter-off (diesel) getter-off (puddling furnace) getter-up (cutlery) ...	429	girl messenger (Post Office) girl probationer (Post Office) girl maker ...	344
german yarnier ...	399	getter-off (diesel) getter-off (puddling furnace) getter-up (cutlery) ...	429	girl messenger (Post Office) girl probationer (Post Office) girl maker ...	344
german yarnier ...	399	getter-off (diesel) getter-off (puddling furnace) getter-up (cutlery) ...	429	girl messenger (Post Office) girl probationer (Post Office) girl maker ...	344

	Code Number.		Code Number.		Code Number.
glass rider	043	glasser, tool	238	glut stanchion	159
glass bader	126	glasser and dresser (leather)	349	glut stick preparer	155
glass bender	138	glasser (lens)	349	glut valves	155
glass bender	127	glasser maker	888	glut washer	159
glass blower, scientific and chemical	124	glasser's assistant	279	glutter	180
glass bottle blower, machine	125	glass slip maker	194	glutter, centre (wheel)	190
glass bottle moulder, machine	125	glazier, church lead	559	glutter, wheel (smith)	190
glass brilliant cutter	126	glazier, foot	559	glutter, wheel (wood)	475-6
glass burners	126	glazier, flat lead	559	glutter's heater	171
glass caller-over	942	glazier, lead	559	glutter's turner-out (rolling stock)	279
glass caper	138	glazier, patent	559	glycerine maker	143
glass caster	138	glazier, patent roofing	226	glycerine maker, crude	143
glass cleaner (glass works)	139	glazier, pavement light	559	glycerine maker, dynamite	142
glass cleaner (photographic plates, etc.)	599	glazier (stained glass windows)	559	glycerine maker, white	143
glass cloth maker	599	glazier (windows)	559	glycerine process man	143
glass collector (photographic plates)	599	glazier's diamond	138	glycerine process man (distiller)	142
glass creosote maker	143	glazier's diamond ferrule	688	glycerine recoverer	143
glass cutter (flint glass)	126	glazier's diamond setter	688	glycerine recovery worker, crude	143
glass cutter, plate	138	glazing house man (gunpowder)	149	glycerine refinery stillman	142
glass cutter, sheet	138	glazing machine worker	233	glycerine stillman	142
glass cutter (sheet or plate)	138	glaz burner	683	glycerine worker	149
glass cutter, window	559	glaze (plate mine or quarry)	073	glycerine worker (explosives)	142
glass cutter, window (glass works)	138	glaze (textile)	393	glut carriage driver	729
glass decorator	138	glaze washer	640	glutcher	044
glass drawer	138	glazer, boat	429	glutted blade stanchion	159
glass driller	138	glazer (laundry)	918	glutted (stained glass) flowers	159
glass drop cutter	126	glazer (silk, wool, etc.)	384	glutted (cutlery)	190
glass examiner (photographic plates)	599	glaze dresser	118	glutted (draw)	428
glass gatherer	123	glaze dresser	109	glutted, pocket blade	190
glass grinder	138	glaze dresser	109	glutted (moss)	229
glasshouse boy	138	glaze kilnman	109	glutted (dress)	428
glass house labourer	138	glaze oldman	119	glutted (laundry)	918
glass house worker	138	glaze oven man	109	glutted (textile)	398
glass letter cutter	138	glaze paperer-up	944	gold and/or silver fastener	296
glass locker	138	glaze plaster	155	gold and/or silver fastener	296
glass lustre cutter	126	glaze polisher	118	gold and/or silver wire dresser	298
glass lustre band	126	glaze putter-up	109	gold and silver beater	298
glass maker, crown	124	glaze rubber	118	gold and silver blower	284
glass maker, opera	138	glaze scorer	118	gold and silver burner	285
glass maker, special	126	glaze warehouseman	118	gold and silver carrier	293
glass maker's pot maker	103	glaze brusher	335	gold and silver cutter	298
glass measure engraver	126	glaze buttoner	429	gold and silver order	370
glass monitor	599	glaze cleaner	525	gold and silver cutter	284
glass painter (signs)	594	glaze cutter	411	gold and silver engraver	293
glass painter (stained glass)	138	glaze dome	429	gold and silver hose or braid	370
glass painter	459	glaze dye	335	gold and silver melter	298
glass paper maker	099	glaze fabric band	374	gold and silver monitor	298
glass pot maker	103	glaze fabric maker	374	gold and silver plate maker	298
glass repairer	989	glaze finisher (hand, machine)	411	gold and silver preworker	296
glass riveter	989	glaze hand (knitted gloves)	374	gold and silver printer	537
glass shade stand maker	486	glaze fluter	429	gold and silver refiner	298
glass splitter	124	glaze liner	411	gold and silver roller	298
glass tile maker	125	glaze machinist	343	gold and silver saw piercer	298
glass washer (photographic plates)	599	glaze maker, boxing	343	gold and silver smelter	298
glass washer (process engraving)	549	glaze maker (chemical, electro)	609	gold and silver stamper	298
glass worker, cut	126	glaze maker (cloth, cotton, fur or leather)	411	gold and silver thread maker	398
glass worker, decorative	549	glaze maker, rocket	559	gold and silver thread spinner	398
glass worker, draws	138	glaze maker, india rubber	509	gold and silver twist maker	398
glass worker, flint table	138	glaze maker, lace	411	gold and silver twist spinner	398
glass worker (glass works)	138	glaze maker (surgical)	409	gold and silver weaver	398
glass worker, optical	138	glaze pointer	411	gold and silver wire dresser	298
glass worker (plate glass)	138	glaze puffer	429	gold and silver man	298
glass writer	599	glaze	770	gold beater's mould maker	338
glass blower	109	glaze	448	gold beater's skin maker	158
glazed brick maker	102	glaze	448	gold beater's skin preparer	158
glazed tile maker	102	glaze	448	gold blocker	537
glass grinder	138	glaze	448	gold bolt maker	298
glass kiln band	118	glaze	448	gold case maker	325
glass miller	104	glaze	448	gold case maker, filled	325
glass mixer	104	glaze	448	gold cleaner (electrolysis)	292
glass painter	108	glaze	448	gold cord	370
glass painter	108	glaze	448	gold dild maker	324
glass, assistant	279	glaze	448	gold duster (printer's)	537
glass (card and pasteboard)	518	glaze and paste brush maker	633	gold embroiderer	407
glass, chaint (dye's and cleaner's)	929	glue boiler	158	golden strap maker	448
glass (cutlery)	238	glue boy	519	golden strap maker	448
glass, edge tool raw	238	glue cutter	159	golden valman	448
glass (foundry)	237	glue cutter-out	159	gold finisher	537
glass, friction	237	glue and presser	488	gold filter (electrolysis)	282
glass (glass)	138	glue driver	159	gold grinder	108
glass, handle	618	glue grinder	159	gold cooler	349
glass (leather)	334	glue layer-out	159	gold cooler man	448
glass (metal-not cutlery)	238	glue maker	158	gold cooler	448
glass (paper)	518	glue moulder	158	gold maker	448
glass (paper cartridge case)	558	glue preparer	158	gold maker's mate	448
glass (paper staining)	548	glue process worker	158	gold lace or braid weaver	370
glass, pearl	618	glue (brush)	488	gold lacquer (printer's)	537
glass, pick shaft	459	glue (cardboard boxes, etc.)	559	gold liner (cylinders)	593
glass, plate	518	glue (lead pencil making)	593	gold liner (smalling, japaning)	241
glass, print card	548	glue (photographic plates)	949	gold machine man	282
glass (pottery)	107	glue, sharp (pins)	456	gold minter	288
glass, spade	238	glue and joint maker	488	gold mouster (gun)	284
glass (textile finishing)	384	glue-up	488		

	Code Number.		Code Number.		Code Number.
gold mounter (plate articles)	282	goods yard superintendent	706	granite setter	572
gold mount maker	284	goose girl	639	granolithic concrete	578
gold nib grinder	298	gopherer (laundry)	918	granolithic labourer	581
gold nib maker	298	gopherer (textile mill)	396	granulating house man (gun-	
gold nib pen maker	298	gophering band	398	powder)	149
gold nib preparer	296	gorer	406	granulator, aluminum	278
gold nib raiser	298	gormer (bricks)	109	granulator (chemical works)	146
gold nib roller	298	gossard	639	granulator (superpowder)	148
gold nib splitter	298	gox labourer	970	granulator (T.N.T.)	148
gold nib stamper	298	governesses' institution		granulator man (singer rad-	
gold nib sweeper	298	keeper	913	ing)	448
gold painter	298	governess, nursery	903	graptiter (explosives)	929
gold pen maker	298	governor house attendant		graptotype operator	939
gold plate maker	298	(gas works)	696	grass keeper	939
gold polisher	285	grab barge engineer	734	grass miner	956
gold printer	537	grab driver	850	grass plaiter	472
gold printer, hat tip	537	grab labourer	099	grass holder	956
gold refiner	296	grader, fat	158	grasman (steel works)	279
gold roller	296	grader, heel	278	grasman, river (water)	699
gold size maker	159	grader (iron and steel)	954	grasman, wood (waterworks)	699
gold smelter	296	grader (rags, &c.)	428	grather	947
goldsmith and silversmith	770	grader (skins)	414	grather and charger	954
goldsmith's jeweller	770	grader, wood heel	486	grave builder	565
gold stamper (block printing)	537	grader (wood heels)	486	grave digger	381
gold stamper (pottery)	108	grader and sorter	964	grave digger	074
gold stripper	298	grader and washer, emery	099	grave dredger	074
gold thimble maker	298	gradiator	322	graver	819
gold thread maker	396	gradiator, thermometer	322	gravelstone cutter	574
gold thread spinner	396	grafter (agricultural)	813	gravelstone maker	572
gold tipper (cigarette papers)	396	grafter, fruit	379	gray stone lime burner	992
gold twist maker	396	grafter (lace finishing)	379	grawler	011
gold twist spinner	396	grafter (celluloid)	618	grease boiler (lubricating)	159
gold washer (electrolysis)	296	grafter, comb	619	grease boiler, lubricating	159
gold weaver	370	grailer, machine (celluloid)	619	grease boiler (tin and tin sheet	
gold wire drawer	298	grain binholder	745	mill)	279
gold worker	102	grain checker	796	grease extractor	158
gold ball cover moulder	608	grain cleaner (screening)	432	grease extractor (woollen mill)	398
gold ball examiner	608	grain cleaner (washing)	449	grease maker	159
gold ball hand winder	608	grain elevator attendant	359	grease maker, coat	159
gold ball machine winder	608	grainer (brewery or distillery)	334	grease maker (lubricating)	158
gold ball moulder	608	grainer, hide	334	grease maker, railway	159
gold ball mould cleaner	608	grainer (leather)	639	grease maker (varnish)	159
gold ball mould filler	608	grainer (leather cloth)	639	grease maker (wool combing)	159
gold ball mould opener	608	grainer, lithographic plate or	562	grease man, coat	159
gold ball painter	596	stone	562	grease man (wool)	399
gold ball presser	602	grainer (paper staining)	536	grease melder, coat	159
gold ball spotter	599	grainer (table base)	638	grease melder, coach	159
gold ball weigher and wrapper	949	grainer, table base	638	grease melder (fat extraction)	159
gold ball worker	606	grainer (textiles)	379	grease melder (glue, shoe)	159
gold candle	696	grainer (tin boxes and trunks)	852	grease melder, railway	159
gold club forger	696	grainer (vehicle)	392	grease mopper (metal trades)	238
gold club maker	696	grainer (wood, stone or metal)	582	grease mopper (precious	
gold course man	899	grainer and marbler	582	metals)	285
golfer	899	grainer attendant	519	greaser, carriage	709
golfer, professional	899	grainer's brush maker	633	greaser (clay, sand, &c.,	
gold green keeper	899	grain examiner	842	quarry)	074
gold machinist (hostery)	374	grain foreman	700	greaser (coal drops)	749
golsh fitter	609	grain hopperman	745	greaser (shoe cord)	089
golsh machinist	414	grain intake man (grain mill-	449	greaser, cold roll (iron and	
gonchman	706	ing)	449	steel rolling, thimplate)	279
goods agent	700	grainman (brewery, distillery)	458	greaser (cold storage)	970
goods agent, assistant	700	grainman, vingar	449	greaser (colliery)	047
goods agent, district	700	grain miller	432	greaser, coal	047
goods brakeman	702	grain porter (dock)	745	greaser, coarse	047
goods brake van cleaner	706	grain porter (railway)	709	greaser, flour confectionery	449
goods checker	705	grain sack mender	417	greaser (fur)	332
goods clerk (railway)	939	grain sampler (dock)	749	greaser (galvanized sheet)	279
goods depot inspector	790	grain sampler (warehouse)	789	greaser (gas, water, electricity	
goods despatcher	840	grainman (brewery, distillery)	459	supply)	699
goods foreman	706	grainman, dried	458	greaser, butch	047
goods guard	702	grain superintendent	940	greaser (iron and steel rolling,	
goods guard, assistant	702	grain trimmer	940	thimplate)	279
goods guard, branch	702	grain warehouseman	940	greaser, kiln	090
goods guard, spare	702	grain weigher (dock)	749	greaser (metalliferous mine)	054
goods guard, under	702	grain weigher (elevator)	970	greaser (metal trades)	279
goods inspector, chief	700	gramophone erector	648	greaser (patent fuel, cement,	
goods inspector, district	700	gramophone examiner	648	&c., works)	099
goods labourer	706	gramophone fitter	648	greaser (railway)	709
goods machine minder (rope,		gramophone maker	648	greaser, rectory house	399
twine)	342	gramophone matrix fitter	648	greaser, ring	399
goods manager	700	gramophone s o n d b o x	648	greaser (road transport)	729
goods manager, chief	700	examiner	648	greaser, rope	047
goods manager, district	700	gramophone soundbox fitter	648	greaser, shears	947
goods manager, divisional	700	gramophone soundbox maker	648	greaser (ship)	736
goods porter	706	gramophone soundbox tester	648	greaser (stone quarry)	072
goods selector (shipping com-		gramophone tester	648	greaser (textile mill)	399
pany)	740	granary keeper	940	greaser, tin (bakery)	449
goods shed superintendent	790	granary labourer (colliery)	449	greaser (tin box, &c.)	279
goods shunter	704	granary labourer (grain mill-	449	greaser, tram	047
goods station inspector	700	ing)	449	greaser, tin	047
goods superintendent, district	700	granary man (colliery)	449	greaser, wages (cement, &c.,	
goods traffic canvasser	700	granary woman (grain milling)	449	works)	099
goods train inspector	700	grand case maker	479	greaser, wagon (railway)	709
goods train travelling inspec-		granite quarryer	079	grease refiner	159
tor	700	granite roll maker	576	grease refiner, coat	159
goods yard inspector	700	granite roll truer	575	grease refiner, coach	159

	Code Number.		Code Number.		Code Number.
grape scouter	333	grinder, cork	649	grinder (precious metals)	287
grape tinner	263	grinder (corn)	432	grinder, precision	237
grasworkers man	389	grinder, corn	432	grinder, printing ink	158
greasy perch	379	grinder, cross (general)	237	grinder, prism	138
greasy coal	889	grinder, cross (steel pens)	237	grinder, pug	089
greetgrover	770	grinder, cutters	237	grinder, rag	089
greenhouse hand	118	grinder, cylinder	394	grinder, razor blade (sashib)	237
greenhouse maker	474	grinder, cylindrical	237	grinder, red lead	149
greenhouse man	118	grinder, daub	089	grinder, rice	432
greenhouse worker	118	grinder, duo	237	grinder, roller	364
green keeper, bowling	899	grinder, dodder	394	grinder, rough	237
green keeper, golf	899	grinder, dolomite	219	grinder, rubber	608
green sand dresser	133	grinder, drisk	237	grinder, sand	099
green sand moulder	133	grinder, drag	148	grinder, sand (iron, steel)	183
green scale attendant	143	grinder (dry colour)	152	grinder, sand (steel works)	279
grinate machinist	279	grinder, dry colour	152	grinder, sawdust	619
grinate turner	279	grinder, dry (edge tools)	237	grinder (saw)	237
grey cutler	044	grinder, dry soap	159	grinder, scissor blade	237
greyhound trainer	899	grinder, dry (vitreous enamel)	148	grinder, scrap	639
grey man (dyeing)	358	grinder, dust	154	grinder (seed crushing)	159
grey man (foreman)	358	grinder, dye	361	grinder, segmental	237
grey room hand	358	grinder, dyewood	148	grinder, shaft (gear, gear)	237
grey room man (bleaching)	358	grinder, edge	449	grinder, shoddy (rag break- ing)	364
grey room man (dyeing)	358	grinder, edge tool	237	grinder, shoddy (rag break- ing)	364
grey slate	570	grinder, edge tool jobbing	237	grinder, silica cement	089
grey warehouseman	359	grinder, emery	089	grinder, silk punch	364
grid carter	188	grinder, enamel	152	grinder, Skack's machine	237
grid maker (electric bells)	318	grinder (explosives)	143	grinder (slate)	578
grid maker, wood	438	grinder, face	237	grinder, slide	468
grid maker, wood	438	grinder, flat (card clothing)	237	grinder, snuff	468
grive	015	grinder, flat (textile trades)	237	grinder, soap powder	159
grill cook	900	grinder, flint	144	grinder, soapstone	099
griller inspector (gas works)	892	grinder, flint	144	grinder (solid glucose)	449
grill hand	900	grinder, foreman card	453	grinder, spare	364
grillo man	143	grinder (foundry)	237	grinder, spore	449
grillo plant attendant	143	grinder, foundry	237	grinder, spade	237
grinder, almond	449	grinder, iron	364	grinder, staddle	448
grinder, avril	237	grinder, ganster	099	grinder, starch	089
grinder, arsenic	149	grinder, ganster pug	099	grinder, stearic acid (or stearin)	159
grinder, asbestos	362	grinder, gelatine	158	grinder (stone)	575
grinder, assistant	279	grinder (gem)	638	grinder, stone	575
grinder, axly	237	grinder, gem	638	grinder, stopper	138
grinder, back	364	grinder, ginger	448	grinder, straight	237
grinder, B and B	237	grinder (glass)	138	grinder, sugar	449
grinder, bark (tannery)	339	grinder, glass	138	grinder, sweep	279
grinder, bark (woodworking)	499	grinder, glass	104	grinder (tannery)	339
grinder, basic slag	149	grinder, glass	159	grinder (textile finishing)	364
grinder, benzine	149	grinder, gold	198	grinder, tool	237
grinder, black lead	099	grinder, gold sub	298	grinder, tool rough	237
grinder, bone flour	149	grinder (gramophone, etc. re- cords)	649	grinder, travelling	237
grinder, bone (manure)	149	grinder, gypsum	089	grinder, universal	237
grinder, bow	237	grinder, sole	237	grinder, ware (logwood)	148
grinder, brimstone	149	grinder, india rubber	648	grinder, ware (pottery)	118
grinder, buff (needles)	237	grinder, indigo	148	grinder (waste rubber)	608
grinder, eucragum	638	grinder, ink	158	grinder, waste rubber	608
grinder, cake (oil cake, or compound cake)	159	grinder, instant	237	grinder, wet	237
grinder, cam-bowl	237	grinder, jasper	638	grinder, white lead	149
grinder, canvas	638	grinder, jet	237	grinder, writing fluid	158
grinder, canvas	638	grinder, jobbing	237	grinder and planer	237
grinder (carbon brushes)	639	grinder, kieselguhr	143	grinder attendant	099
grinder, carbuncle	638	grinder, knife	237	grinder feeder	159
grinder, card	364	grinder, lens (optical)	138	grinderman (paper pulp)	519
grinder, card clothing	237	grinder, lens (spectacle lens)	138	grinder man, wood pulp	518
grinder, card room	364	grinder, limonium cork	639	grinder-off	139
grinder, casing	448	grinder, lithographic plate or stone	548	grinder, assistant	279
grinder, castings (foundry)	237	grinder, stone	548	grinding machine attendant (china clay, cement, etc.)	099
grinder, cat's eye	638	grinder, logwood	148	grinding machine attendant, shaft	237
grinder (cellulose acetate)	143	grinder, machine (celluloid)	619	grinding machine man	519
grinder, cellulose acetate	143	grinder, machine (metal)	237	grinding machine minder (cocoa)	448
grinder, cement	099	grinder, machine knife emery	237	grinding mill attendant	099
grinder (cereal foods and starches)	448	grinder, madder	148	grinding miller	099
grinder, charcoal	149	grinder, madrepore	638	grinding worker, shaft	237
grinder (chemicals)	143	grinder, malachite	638	grindstone fitter	278
grinder (chemical labourer)	149	grinder (malt)	458	grindstone maker	575
grinder, china clay	099	grinder, male	458	grindstone moulder	575
grinder (china clay, emery, do.)	099	grinder (manure)	148	grindstone rounder	575
grinder (china clay, sand- stone &c., quarry)	074	grinder, marble	138	grindstone turner	575
grinder, chocolate	448	grinder, marl	104	gripse minder	278
grinder, chocolate powder	443	grinder (metal trades)	237	grisp filter	278
grinder, clay (pottery)	104	grinder, mortar	564	grisp maker	498
grinder, clinker (cement)	099	grinder, mortar mill	564	grisp maker, bagonet	498
grinder, coal (coke oven)	099	grinder, mustard	448	gripper (colliery)	043
grinder, coal (patent fuel)	099	grinder, oat	432	gripper (clog sales)	498
grinder, cocoa	443	grinder, oatmeal	432	gripper (cubbery)	278
grinder, cocoa nib	448	grinder (oil cake, etc.)	159	gripper (edge tool)	278
grinder (colour)	152	grinder, opax	638	gripper (flax and hemp)	278
grinder, colour	152	grinder, optical lens	138	gripper's assistant	279
grinder, colour raw material	118	grinder, paint	152	grist miller	432
grinder, comb (bone, horn, etc.)	619	grinder, paper	559	grist hand	374
grinder, comb (textile machinery)	237	grinder (paper pulp)	519		
grinder, compo	279	grinder (patent fuel)	099		
grinder, composition	279	grinder, pearl	618		
grinder, coral	638	grinder, pebble	638		
		grinder, pepper	449		
		grinder, pig	354		
		grinder (pottery)	104		
		grinder (precious metal refuse)	298		

	Code Number.		Code Number.		Code Number.
grissold knitter	374	guard, post	702	gun and mountings 6tier	210
grit miner	072	guard (railway)	702	gun assembler	230
grit quarryer	072	guard, relief	702	gun barrel chamberer	228
grit rock quarryer	072	guard, sorting	702	gunboat separator	149
groel maker	432	guard, spare goods	702	gunboat valower	149
grocer	770	guard, spare relief	702	gun filter	239
grocer's canister maker	264	guard, train	943	gun filter (ordnance)	210
grog mill worker (brick, sagger making)	119	guard, tramcar (cable, elec- tric, etc.)	724	gun furniture farger	193
grog mill worker (fireclay and ashironware)	184	guard, tramcar jumper	724	gun inlayer	273
grog wisceler	119	guard, tranship	702	gun lock forger	193
groom, hall	022	guard, under	702	gun lock freer	239
groom (colliery)	047	guard, under goods	702	gun lock maker	239
groom, colliery	047	guard, under passenger	702	gun locksmith	239
groom, domestic	725	guard, van	723	gun machinist	239
groom (horsekeeper)	725	guard caller	709	gun maker, Lewis machine	239
groom (on farm)	023	guarder (jork)	276	gun maker, machine	239
groom (racing stable)	888	guarder (textiles)	286	gun metal moulder	180
groom, stud	023	guards inspector	790	gun metal stamper	210
groom of the chambers	900	tuolph leg maker	477	gun mountings farger	210
groover (cardboard boxes)	509	gunman	943	gun prover	279
groover (lead pencils)	489	gun kiln attendant	143	gunsmith	279
groover (machine tools)	280	gun mill attendant	143	gun stocker	489
groover (needles)	279	guide (Automobile Associa- tion, Royal Automobile Club)	723	gun turner	509
groover (tin box, canister, etc.)	279	guide, cyclist	723	gun wad maker (cartridges)	239
grooving machine attendant	493	guide, motor	723	gun wire jointer	273
grosser	843	guide, motor cyclist	723	gun wire winder	273
ground attendant	899	guide (personal service)	923	gun work forger	190
ground engineer (aviation)	750	guide cleaner	393	gunst hand	414
grounder (sheepskin)	338	guide for bird children	329	gut blower	443
grounder (skin dyeing)	335	guide maker (textile machi- nery)	273	gut cleaner	443
grounder (wallpaper)	536	guider, cloth (textile printing)	389	gut drawer	663
ground framesman	704	guider (iron and steel tubes)	279	gut fender	683
ground keeper	015	guider (insolium, oilcloth)	630	gut maker	683
ground layer	108	guider, rope (coal mine)	943	gut maker, surgical	683
groundman (waterworks)	689	guider, rope (metalliferous mine)	954	gut scraper	448
ground pointman	704	guide-in	394	gut selector	448
ground sheet maker	603	guide roller	179	gut spinner	688
ground signalman	704	guide rolling backer	179	gut string maker	688
groundman	899	guide rolling farmaceman	171	gutts percha cable jointer	319
groundman, assistants (cricket)	899	guide rolling runner-through	173	gutts percha cleaner (electric cable)	609
groundman, cricket	899	guide rolling straightener	274	gutts percha jointer	311
groundman, football	699	guilotine cutter (paper mak- ing)	516	gutts percha moulder	682
groundman (railway)	704	guilotine cutter (printer's)	548	gutts percha wire coverer	319
grower, asparagus	013	guilotine cutter (stationery)	558	gutts percha worker	608
grower, brin	013	guilotine cutter (wood, veneer)	486	guttermen	970
grower, flower	013	guilotine engine man (rolling mill)	279	gymbler	321
grower, fruit (under glass)	013	guilotine hand (bone, horn, etc.)	618	gymnastic instructor	899
grower, herb	013	guilotine hand (electrical ap- paratus)	319	gymnast	899
grower, hop	011	guilotine hand (metal trades)	279	gymnastic instructor	899
grower, mushroom	013	guilotine hand (wallpaper)	548	gyp	929
grower, orchid	013	guilotine man (asbestos)	518	gypsum boiler	099
grower, onion	039	guilotine man (metal trades)	278	gypsum brooker	099
grower, potato	011	guilotine man (paper mill)	518	gypsum carner	092
grower, rose	013	guilotine, lead plate	279	gypsum crusher	099
grower, seed (farmer)	011	guilotine (metal trades)	278	gypsum dresser	076
grower, seed (for seedmen)	013	guilottner, plate (assembla- tion)	319	gypsum grinder	099
grower, strawberry	011	guilotine worker	279	gypsum kiln man	092
grower, tomato	013	guiter maker	498	gypsum miller	099
grower, watercress	039	galle cleaner	910	gypsum millman	099
grower, willow rod	039	galley maker	105	gypsum miner	076
grower, withy	039	galley man	970	gypsum oven men	092
grower, wood	016	gun boiler	434	gypsum rockman	076
grubber, root	027	gun chopper	159		
grubber, wood	027	gun cleaner	159		
grummet	149	gun coating machinist	389		
grummet maker	358	gun dresser	159		
grummetter	429	gun maker (eddyre)	159		
guard, acting	702	gun maker (sweet)	339		
guard, assistant	702	gunner (bookbinder's)	549		
guard, assistant goods	702	gunner (colliery)	549		
guard, assistant passenger	702	gunner (envelope)	553		
guard, auto-car	702	gunner, envelope	553		
guard, ballast	702	gunner (lithographer's)	549		
guard, branch	702	gunner, paper	549		
guard, branch goods	702	gunner, post wrapper	549		
guard, branch passenger	702	gunner, printer's	549		
guard, carriage	702	gunner (stationery)	549		
guard (cartage)	723	gunning machine feeder	558		
guard, collector	702	gun moulder (sweet)	435		
guard (colliery)	043	gun paper sorter	569		
guard, electric train	702	gun picker	159		
guard, fish	702	gun runner (eddyre)	339		
guard, forest	016	gun runner (varnish)	158		
guard, freight	702	gun silk picker	399		
guard, goods	702	gun silk piecer	399		
guard, hot metal	279	gun silk trieter	372		
guard, mineral	702	gun sorter	159		
guard, motor (Post Office)	723	gun action forger	150		
guard, motor (railway)	702				
guard, motor van (mail)	723				
guard, omnibus (railway)	724				
guard, parcel sorting	702				
guard, passenger	702				

H

haaf zet fetherman	000
haberdasher	770
haki maker	404
hackle attendant	278
hackle driller	210
hackle finisher	278
hackle maker	278
hackle pin filler	278
hackle pin man	278
hackle pin setter	278
hackler, bus	639
hackler, brush fibre	363
hackler, ball	363
hackler, fibre (brush, broom)	363
hackler, fibre (textile mill)	362
hackler, foreman	359
hackler, hair	362
hackler, head	362
hackler, horsehair dry	362
hackler, horsehair wet	362
hackler, machine	362
hackler, Manila hemp	362
hackler (wireless brushes)	362
hackling machine attendant	359
hackling machine man	359
hack master	711
hackney carriage driver	718
hack saw maker	278

	Code Number.		Code Number.		Code Number.
hack saw toother	254	hair washer (leather dressing)	339	hammer nail finisher	496
hackback cutter	437	hair washer (saddle tail)	389	hammer nail maker	486
hackback splitter	448	hair weaver (hair cloth)	370	hammer shafter	498
hackback woman	437	hair weaver, horse	370	hammer smith, Bradley	190
haemetic filler	279	hair weaver (wig making)	428	hammer smith, drop	190
haft cutter, bone	613	hair worker	388	hammer smith, pneumatic	190
haft cutter (bone, horn, etc.)	613	hair worker, fancy	388	hammer smith, spring	190
haft cutter, horn	618	hair blocker	388	hammer smith, steam	190
hafter (cobler)	228	hair blocker	388	hammer smith, tail	190
hafter, desert	228	hair-tone engraver	526	hammer straightener	190
hafter (edge tool)	279	hair-tone etcher	526	hammer straightener (needle)	278
hafter, fork	228	hair-tone operator	526	hammer finisher	472
hafter, pen knife	228	hair-tone process mounter	542	hammer maker	472
hafter, razor	438	hair-tone process operator	542	hammer roller	472
hafter, scale tang	438	hair-tone process printer	526	ham smoker	437
hafter, table knife	228	hair boy	917	ham stover	437
halt maker, sickle	486	hair inspector, booking	706	hand bag maker, ladies'	348
halt maker, spoke and shovel	486	hair inspector (railway)	706	handbell ringer	486
halt maker, wood handle	486	hair maid, dining	929	hand biscuit baker	433
halt turner, bone	612	hair maid (domestic)	900	hand blocker (cloth, straw hats)	409
hagger	448	hair man	917	hand bowl maker	105
hagger's maker	448	hair marker	298	hand brock maker	102
hagger	778	hair mark slinger	436	hand burner charger	148
hair bleacher, fancy	386	hair porter (hotel, etc.)	917	hand butcher	238
hair bleacher, horse	386	hair porter (railway)	706	hand cart maker	475-6
hair bleacher (horse hair)	386	hair roller (worsted)	388	hand comb	278
hair bleacher (wig making)	428	hair attendant	706	hand comb	639
hair blower	482	hairer eyeletter	344	hand comb	402
hair breaker	362	hairer maker (rope)	388	hand comb (furniture, cordu-roy, etc.)	386
hair broom maker	638	hairer maker, rope	388	hand dresser (dust, heap)	362
hair comb	363	hairer shank maker	373	hand dresser, hat	362
hair cloth weaver	370	hairer weaver	373	hand divider	231
hair cording machinist	407	hairer weaver	373	hand divider	231
hair curler (finishing)	386	hairer weaver (copper mine)	656	hand engraver (mathematical instruments)	322
hair curler, horse (brushing)	386	hair and beef cutter	529	hand engraver (roller engraving)	257
hair curler, horse (spinning)	386	hair curer	437	hand engraver (roller engraving)	257
hair curler (spinning)	386	hair dryer	437	hand engraver (roller engraving)	257
hair dresser	386	hairer heater	234	hand engraver (roller engraving)	257
hairdresser (barber)	320	hairer heater	234	hand engraver (roller engraving)	257
hair dresser (broom, brush)	638	hairer heater	234	hand engraver (roller engraving)	257
hair dresser, horse (drawing)	363	hairer heater	234	hand engraver (roller engraving)	257
hair dresser, horse (finishing)	363	hairer heater	234	hand engraver (roller engraving)	257
hair dresser (horsehair)	386	hairer heater	234	hand engraver (roller engraving)	257
hair dresser (horsehair finishing)	386	hairer heater	234	hand engraver (roller engraving)	257
hairdresser's assistant	320	hairer heater	234	hand engraver (roller engraving)	257
hairdresser's model maker	428	hairer heater	234	hand engraver (roller engraving)	257
hairdresser's sundressman	770	hairer heater	234	hand engraver (roller engraving)	257
hair dryer (felt)	398	hairer heater	234	hand engraver (roller engraving)	257
hair dryer	398	hairer heater	234	hand engraver (roller engraving)	257
hair dye	386	hairer heater	234	hand engraver (roller engraving)	257
hair felt maker	378	hairer heater	234	hand engraver (roller engraving)	257
hair felt sheet maker	378	hairer heater	234	hand engraver (roller engraving)	257
hair finisher	398	hairer heater	234	hand engraver (roller engraving)	257
hair frame coverer	428	hairer heater	234	hand engraver (roller engraving)	257
hair frame maker	428	hairer heater	234	hand engraver (roller engraving)	257
hair froter	398	hairer heater	234	hand engraver (roller engraving)	257
hair heckler	362	hairer heater	234	hand engraver (roller engraving)	257
hair head (brush, broom)	638	hairer heater	234	hand engraver (roller engraving)	257
hair hook tier	638	hairer heater	234	hand engraver (roller engraving)	257
hair lace maker	428	hairer heater	234	hand engraver (roller engraving)	257
hair line spinner	365	hairer heater	234	hand engraver (roller engraving)	257
hair miller, horse	398	hairer heater	234	hand engraver (roller engraving)	257
hair miller (horsehair)	398	hairer heater	234	hand engraver (roller engraving)	257
hair mill hand	398	hairer heater	234	hand engraver (roller engraving)	257
hair miller	398	hairer heater	234	hand engraver (roller engraving)	257
hair mixer (broom, brush)	638	hairer heater	234	hand engraver (roller engraving)	257
hair mixer (horsehair)	398	hairer heater	234	hand engraver (roller engraving)	257
hair mounter	428	hairer heater	234	hand engraver (roller engraving)	257
hair net maker	428	hairer heater	234	hand engraver (roller engraving)	257
hair opener	428	hairer heater	234	hand engraver (roller engraving)	257
hair pad maker	428	hairer heater	234	hand engraver (roller engraving)	257
hair pen liner	633	hairer heater	234	hand engraver (roller engraving)	257
hair pencil maker	633	hairer heater	234	hand engraver (roller engraving)	257
hair pen maker	633	hairer heater	234	hand engraver (roller engraving)	257
hair picker (brush, broom)	638	hairer heater	234	hand engraver (roller engraving)	257
hair pin machinist	279	hairer heater	234	hand engraver (roller engraving)	257
hair plume maker	428	hairer heater	234	hand engraver (roller engraving)	257
hair preparer	428	hairer heater	234	hand engraver (roller engraving)	257
hair setting weaver	370	hairer heater	234	hand engraver (roller engraving)	257
hair sieve maker	370	hairer heater	234	hand engraver (roller engraving)	257
hair sieve weaver	370	hairer heater	234	hand engraver (roller engraving)	257
hair sorter (brush, broom)	638	hairer heater	234	hand engraver (roller engraving)	257
hair sorter, horse (grading)	363	hairer heater	234	hand engraver (roller engraving)	257
hair sorter, horse (grading)	363	hairer heater	234	hand engraver (roller engraving)	257
hair sorter (horsehair)	398	hairer heater	234	hand engraver (roller engraving)	257
hair spinner	365	hairer heater	234	hand engraver (roller engraving)	257
hair spinner, horse	365	hairer heater	234	hand engraver (roller engraving)	257
hair tapper (locking)	363	hairer heater	234	hand engraver (roller engraving)	257
hair tapper, horse (grading)	363	hairer heater	234	hand engraver (roller engraving)	257
hair tipper	363	hairer heater	234	hand engraver (roller engraving)	257
hair trigger maker	239	hairer heater	234	hand engraver (roller engraving)	257
hair warper	367	hairer heater	234	hand engraver (roller engraving)	257
hair warper, fancy	367	hairer heater	234	hand engraver (roller engraving)	257
hair warper, horse	367	hairer heater	234	hand engraver (roller engraving)	257

Code Number.	Code Number.	Code Number.
handla maker, spade 486	handy man (domestic) 929	hard sider (needles) 238
handla maker, wood 498	handyman (gas works, water- works) 699	hard silk knitter 343
handla maker, wood (net tool) 498	handyman (sugar refinery) 449	hard soap boiler 159
handla maker (pottery) 105	handyman in grist mill 432	hard soap maker 159
handla polisher 619	hangar (fish curing) 448	hard solderer (metal) 262
handla presser 513	hangar (fish curing) 448	hard solderer (precious metals) 287
handler (agricultural tools) 279	hangar (leather cloth) 638	hardstone banker mason 572
handler, bill book 279	hangar (linoleum) 638	hard straightener 278
handler, boiler (flax yarn boil- ing) 398	hangar (motor car) 475-6	hard waste breaker 362
handler (brush, broom) 639	hangar (paper, cardboard) 519	hard waste tester 362
handler, butt 333	hangar, paper (decorator) 586	hardwood turner 486
handler, chrome 333	hangar, piece (cotton dye- ing) 399	hardness blocking mixer 156
handler, coal (electricity supply) 699	hangar, piece (textile print- ing) 399	harness builder 398
handler (edge tool) 279	hangar, piece (woolens dye- ing) 399	harness builder, jacquard 398
handler, edge tool 279	hangar, rope 139	harness cleaner 729
handler (flax yarn boiling) 333	hangar maker, coat (wood) 498	harness cutter, coach 334
handler (leather works) 333	hangar maker (weaver) 370	harness cutter 342
handler, lime 333	hangar maker, woven 370	harness drawer 368
handler, lime yard 333	hangar-on (clay, marl, etc.) 074	harnesser, dolly 398
handler, liquor 333	hangar-on (colliery) 043	harness furniture chaser 278
handler (paper bags) 559	hangar-on (fishnet net sinkers) 399	harness furniture dresser 344
handler (pottery) 116	hangar-on (metalliferous mines) 064	harness furniture coverer 238
handler, saw 279	hangar-on, pig 279	harness gaiter 398
handler (saws) 279	hangar-on (finger) 593	harness hame forger 190
handler, split 279	hangar-on (stone mine or quarry) 072	harness hame forger 241
handler (silver or plated goods) 267	hangar's mate 639	harness knitter, jacquard 397
handler, soap 333	hangar-up (laundry) 918	harness loom weaver 374
handler, spade and shovel 278	hangar-up (plaster's helper) 223	harness mender, jacquard 398
handler (spinning frame) 399	hank buncher (making-up) 943	harness maker (leather) 348
handler, stone 639	hank buncher (not wool ware- house) 367	harness maker and enterer, weaver's 210
handler setter 399	hank dryer 396	harness mender 398
handla shifter (saws) 451	hank dye 379	harness ornament maker (leather) 344
handla stamper (cutlery) 190	hank, Bessemer tip 943	harness plaster 278
handla starter 399	hanker (hanging) 399	harness polisher for saddler 348
handla starter, whip 512	hanker (box and hoop) 399	harness preparer 344
handla turner, beam 436	hanker (railing, winding) 367	harness rool man 344
handla turner (wood) 599	hankhouse (rolling mill) 279	harness sewer (wool weaving) 398
handla varnisher 599	hank parter (carpets) 399	harness sewer (wool weaving) 398
hand loom weaver (carpets) 370	hank sizer 369	harness tier-up (loom) 390
hand loom weaver (cloth) 370	hank setter 398	harness water 376
hand machine braider 398	hank twister 943	harpist 886
hand machine weaver (fishing nets) 398	hank winder (not silk) 367	harp maker 648
hand machinist (brooms and brushes) 638	hank winder (silk) 871	harpooner 988
hand machinist (metal stamp- ing) 279	hank yarn polisher 398	harpoon maker 190
hand mechanist (sewing machines) 419	harbour dues and rates col- lector 731	harshman 158
hand maker (clock, watch) 324	harbour foreman 740	hassock maker 302
hand maker, watch 324	harbour master 731	hat and umbrella stand maker 478
hand mender 004	harbour superintendent 731	hat blocker 478
hand mixer (explosives) 143	hardener, axle 220	hat blocker, hydraulic 476
hand moulder 180	hardener, axle case 220	hat block maker 476
hand mule spinner 395	hardener, blade 220	hat carder 410
hand net braider 398	hardener, case 220	hat case maker 345
hand plater 498	hardener, die 220	hatcheller 362
hand plater (base) 498	hardener, drill 220	hatchmen driver 042
hand polisher (silver or plate) 235	hardener, edge tool 220	hatchmen runner 043
hand polisher, soap and fork 404	hardener, felt 378	hatcher, fish 988
hand presser (sailor's) 254	hardener, felt 378	hatched man (coal mines) 410
hand presser, general 419	hardener (file) 220	hatchman 745
hand presser (dresses) 411	hardener, form 409	hatchman 745
hand presser (leather goods) 348	hardener (hats) 409	hat cleaner (after proofing) 429
hand presser (straw hats) 410	hardener (iron, steel articles) 220	hat cleaner, straw 929
hand presser maker (boots) 412	hardener, jiggar 409	hat leather binder 419
hand spanner (male) 365	hardener (needles) 220	hat leather cutter 410
hand splicer 375	hardener, ring 220	hat leather dresser 354
hand stuffer (harness) 419	hardener (saws) 220	hat leather sewer 420
hand trimmer 339	hardener, scissors 220	hat leather shaver 420
hand traveller 638	hardener, wool 409	hat leather shoe liner 420
hand truck letter 729	hardener's assistant (cutlery) 279	hat leather smoother 420
hand truck proprietor 729	hardener's assistant (saws) 220	hat leather turner 419
hand turner (collars) 428	hardener taster, flat 378	hat leather worker 384
hand warper 367	hardener taster, roller 378	hat maker, fur 382
hand washer (laundry) 918	hardening furnaces, case 220	hat maker, open 419
hand washer (metal works) 278	hardening-on kiln fireman 109	hat maker, wash 419
hand washer (textile mill) 399	hardening-on kilnman 109	hat pin maker (gold or silver) 284
hand wheel winder 367	hardening-on setter-in 109	hat polisher, felt 410
hand winder, gold ball 908	hard weaver 370	hat polisher, straw 410
hand winder (textile mill) 367	hard washer 370	hat printer 537
handyman, builder's 563	hard mapper (tobacco pipes, not clay) 685	hat shape maker 406
handy man (cement) 099	hard roll worker 178	hatter (hat making) 409
	hard rubber cutter-out 699	hatter, journeyman 409
	hard rubber maker 602	hatter (retail dealing) 770
	hard rubber turner 608	hat tip gold printer 537
	hard rubber worker (before rubeamination) 602	hat tip printer 537
		hat tip sewer 549
		hat wire blocker 428
		hat wire coverer 429

	Code Number.		Code Number.		Code Number.
bat wire twister	429	beader, Marden bolt	278	beap keeper	041
bat wire winder	432	beader (brass)	278	beapman, coppers	149
haulage contractor (colliery)	041	beader, waste	278	beap weighman	040
haulage contractor (on own account)	712	beader (wooden)	278	beating trumpet maker	040
haulage driver (colliery)	050	beader, pin (artificial teeth)	278	beath filler	279
haulage driver, electric	054	beader, rock	047	beath maker	071
haulage foreman	045	beader (staves)	278	beath man (brewery)	409
haulage hand (colliery)	045	beader, side bolt	278	beath man (coke works)	049
haulage hand, colliery main	043	beader, screw	047	beathman, sick	333
haulage hand, mechanical	043	beader, vellum	382	beath man's assistant	089
haulage lad	043	beader, wrought nail	278	beathstone maker	089
haulage man (coke works)	069	beader (yarn)	399	beater, bar nail	171
haulage man (colliery)	043	beader, yarn	289	beater, bloom	171
haulage overman	041	beader-up (bolts, rivets)	278	beater (cycles)	262
haulage rope inspector	041	beader-up (corks)	498	beater (files)	220
hauler (hags)	738	beader-up (dolph keys)	477	beater, forgeman's	171
hauler, boat	738	bead flyman	013	beater, glutter's	171
hauler (colliery)	043	bead trout man (farms)	700	beater, iron	171
hauler, wagon	054	bead housemaid	900	beater, iron (files)	171
haulier, butt	333	beading driver (coal mine)	042	beater (metal)	171
haulier (clay, sand, etc.)	074	beading driver (steam mine or quarry)	072	beater, mill (rolling mill)	171
haulier (colliery)	041	beading machine man, bolt	278	beater, plate	171
haulier, foreman	043	beading machine man (bolts, rivets)	278	beater, rivet	258
haulier, incline	072	beading machine man, rivet	278	beater (riveting)	258
haulier (in stone quarry)	333	beading machine setter	278	beater, scythe smith's	171
haulier, lime	041	bead lad (racing stables)	088	beater, sheet	171
haulier, mucker	041	bead lampman	049	beater, tyre (rolling stock)	278
haulier (metalliferous mine)	054	bead maid	900	beater, underhand	171
haulier, night	043	bead maker (cakes)	498	beater, vertical furnace	171
haulier (not in mine)	043	bead maker, clock	150	beater, wheel	171
haulier, pit	073	bead maker, clock	150	beater, wheel disc	171
haulier (slate mine or quarry)	040	bead miller (diamond, etc.)	051	beater, wire rod mill	171
haulier, surface	027	bead miller (pottery)	101	beater boy	159
haulier, timber	043	bead minder, halving (wool combing)	363	beater man (condensed milk)	449
haulier, turn keeper	729	bead minder, mule	363	beaterman (patent feed)	099
haulier's labourer	050	bead of coating department	531	beater man (sugar refining)	449
hauling engine attendant	350	bead office inspector	700	beater's assistant	279
hauling engine conductor	350	bead of freight department	531	beater's helper	279
hauling engine driver	350	bead of passenger department	531	beath broom maker	489
hauling engine man	350	bead packer	948	beath collector	035
hauling horse driver (all)	738	bead parcel porter	706	beath cutter	039
havel breather	399	bead performed	900	beath gatherer	039
havel knitter	397	bead porter (hospital)	917	beath keeper	015
havel machinist	397	bead porter (hotel, club, etc.)	917	beating engineer	240
havel maker	397	bead porter (Post Office)	751	beating pit cranneman	950
havel sizer	397	bead porter (railway)	796	beathman	142
havel varnisher	399	bead postman	751	beath tender (blast furnace)	278
havel master	731	bead postman, assistant	751	beath tender	278
hawker	777	bead roller	178	beath, ballast	745
hawker, coal	776	bead roller-out	118	beath (coal hewer)	042
hawker, fish	776	bead shaper (casks)	498	beath, coal (coal depot)	970
hawker, milk	776	bead shaver	200	beath, pig	279
hawker, oil	777	bead shunter	704	beath, pig iron	279
hawker, street	777	bead sizer	399	beath, salt	745
hawsman	060	bead stoker (galvanized sheet)	561	beath, stone	139
lay haler	024	bead stoker	561	beath, stone	139
lay haler attendant	021	bead trimmer (galvanized sheet)	399	beath, stone	139
hayband looper	279	bead trimmer	399	beath, stone	139
hayband maker	279	bead trimmer (corks)	498	beath, stone	139
hay band spinner	639	bead trimmer (wool)	354	beath, stone	139
hay bender	024	bead varnish maker	151	beath, stone	139
hay cutter (not agricultural)	449	bead warehouseman	040	beath, stone	139
hay cutter (on farm)	024	bead warehouseman (tannery or leather works)	399	beath, stone	139
hay presser	021	bead wheel	399	beath, stone	139
hay rope spinner	639	bead wheel	399	beath, stone	139
hay spinner (for moulding cores)	639	bead wheel	399	beath, stone	139
hay tier	449	bead wheel	399	beath, stone	139
hay trimmer (not on farm)	449	bead wheel	399	beath, stone	139
hay trimmer (hay feeding)	449	bead wheel	399	beath, stone	139
hay trimmer (on farm)	024	bead wheel	399	beath, stone	139
hayward of the manor	015	bead wheel	399	beath, stone	139
H. C. and D. Foreman	706	bead wheel	399	beath, stone	139
head annealer (galvanized sheet)	220	bead wheel	399	beath, stone	139
head bender	532	bead wheel	399	beath, stone	139
head bankman	041	bead wheel	399	beath, stone	139
head bookkeeper	931	bead wheel	399	beath, stone	139
head carter (carton)	353	bead wheel	399	beath, stone	139
head cashier	041	bead wheel	399	beath, stone	139
head clerk	041	bead wheel	399	beath, stone	139
head cutter (coopering)	481	bead wheel	399	beath, stone	139
head doffer	399	bead wheel	399	beath, stone	139
head drier	353	bead wheel	399	beath, stone	139
head ender	394	bead wheel	399	beath, stone	139
head ender, cutter machine	394	bead wheel	399	beath, stone	139
head engineer	690	bead wheel	399	beath, stone	139
header (bolts, rivets)	278	bead wheel	399	beath, stone	139
header (roof haulage)	043	bead wheel	399	beath, stone	139
header, coal (drawer)	043	bead wheel	399	beath, stone	139
header, coal (hewer)	042	bead wheel	399	beath, stone	139
header, cold	279	bead wheel	399	beath, stone	139
header, collier	042	bead wheel	399	beath, stone	139
header, dock	043	bead wheel	399	beath, stone	139
header, fish	043	bead wheel	399	beath, stone	139
header (hewer)	042	bead wheel	399	beath, stone	139
header, Hordfall bolt	278	bead wheel	399	beath, stone	139

[illegible]

	Code Number.		Code Number.		Code Number.
hole borer (colliery) ...	447	hooker-on (metalliferous mine) ...	654	horn worker, buffalo ...	616
hole borer (piano) ...	436	hooker-on (pottery works) ...	119	horologist ...	323
hole borer (saw bedding) ...	231	hook-on (railways) ...	719	horse and carriage hankman ...	706
hole cutter (shipbuilding) ...	251	hook-on (wire works) ...	274	horse and carriage porter ...	706
hole cutting machinist ...	486	hooker-out (wire works) ...	279	horse auctioneer's runner ...	370
hole grinder ...	237	hooker-over, back side ...	178	horse box maker ...	344
hole maker, jewel ...	324	hooker-over (rolling mill) ...	178	horse box builder ...	475-6
hole maker (piano) ...	486	hooker-up (cloth) ...	425	horse box cleaner ...	706
holoman, jib ...	942	hooker-up (coal mine) ...	643	horse box maker ...	475-6
holoman, knos ...	014	hooker-up (iron works) ...	190	horse box porter ...	706
holer, button (iron making) ...	585	hook forgerman ...	190	horse box repairer ...	475-6
holer, button (stitcher) ...	419	hook forgerman, reaping ...	190	horse boy, chain (hauling, &c.) ...	729
holer, collar ...	042	hooking bar trailer ...	176	horse boy, chain (river or canal) ...	738
holer (colliery) ...	042	hooking-boy ...	279	horse boy (coal mine) ...	043
holer (electric wind instru- ments) ...	608	hook maker, sink ...	278	horse boy, cock ...	729
holer, eyelid ...	608	hook maker, bunns ...	278	horse boy (metal mine) ...	725
holer, eye ...	250	hook maker, boots ...	278	horse boy (stables) ...	725
holer (metalliferous mine) ...	654	hook maker (dress) ...	278	horse boy, trace ...	729
holer (metal washers) ...	254	hook maker, fuses chain ...	324	horse brachman ...	048
holer (nails) ...	279	hook maker, gaff ...	190	horse breaker ...	725
holer (quarrier) ...	074	hook maker, reaping ...	190	horse breaker (coal mine) ...	047
holer, shot ...	072	hookman ...	190	horse breeder ...	011
holer (wind instruments) ...	608	hookmouth, reaping ...	190	horse, carriage and dog fore- man ...	706
holer (wood wind instru- ment) ...	486	hook snail (reaping hook) ...	618	horse driver ...	725
holer and borer (wood instruments) ...	486	hook tier, gimp (fishing tackle) ...	668	horse clothes ...	428
holing machine driver ...	042	hook tier, gimp (fishing tackle) ...	668	horse clothing machinist ...	419
holing machine man ...	054	hook tier, hair ...	588	horse clothing maker ...	428
Hollerist operator ...	939	hook-to-gut paperer ...	949	horse collar machinist ...	344
hollow (clay sole) ...	438	hook worker (tubes) ...	279	horse collar maker ...	344
hollow ware buffer ...	215	hook tender, wood ...	477	horse cooper ...	770
hollow-ware coiler ...	155	hook bundle ...	279	horse cooper ...	770
hollow-ware chipper, iron ...	183	hooker, bobbin ...	279	horse dealer ...	770
hollow-ware enameller ...	241	hooker, case ...	949	horse dockman ...	706
hollow-ware maker (electro- plate) ...	267	hooker (cooperage) ...	477	horse drawer ...	054
hollow-ware maker (pottery) ...	105	hooker, iron (packing cases) ...	949	horse driver (canal) ...	738
hollow-ware maker, tin ...	264	hooker (teaching works) ...	588	horse driver, chain ...	704
hollow-ware maker ...	180	hooker (packing cases) ...	949	horse driver (clay, gravel, &c.) ...	074
hollow-ware moulder (earthen- ware) ...	268	hooker, spring ...	279	horse driver (coal mine) ...	738
hollow-ware moulder (riveter) ...	255	hooker-off (corks) ...	488	horse driver, hauling ...	728
hollow-ware polisher ...	205	hooker of packing cases ...	949	horse driver (metal mine) ...	054
hollow-ware presser ...	103	hook frogman ...	279	horse driver, shunt ...	704
hollow-ware riveter ...	255	hook maker ...	477	horse driver (slate mine or quarry) ...	073
hollow-ware squeezer ...	105	hook maker, wood ...	477	horse driver (stone mine or quarry) ...	072
hollow ware tender ...	170	hook shaver ...	477	horse driver, truck ...	704
hollow ware turner ...	200	hook stick tender ...	477	horse driver, hauling ...	728
homoeopathic chemist ...	770	hook alo brewer ...	458	horse driver (metal mine) ...	054
homizer ...	119	hook ground labourer ...	458	horse driver, shunt ...	704
hommoer (tyra mill) ...	279	hook greaser ...	014	horse driver (stone mine or quarry) ...	072
hone cutter ...	575	hook merchant ...	770	horse fetter (coal mine) ...	047
honestone maker ...	575	hooker, ash ...	589	horse fetter (stables) ...	725
Honiton tender ...	379	hooker (brewery) ...	459	horse foreman ...	715
Honiton worker ...	377	hooker attendant (margarine) ...	449	horse foreman, deputy ...	715
hood coverer (perambulator) ...	658	hooker barge man ...	738	horse foreman, trace ...	715
hood cutter ...	409	hooker boy ...	738	horse hair blancher ...	398
hood frame assembler ...	658	hooker feeder (cotton blowing) ...	362	horse hair carter ...	393
hood frame assembler, peram- bulator ...	658	hooker feeder (wool carding) ...	383	horse hair curler (finishing) ...	398
hood frame maker ...	278	hooker filler (cotton blowing) ...	362	horsehair curler (spinning) ...	365
hood frame maker, perambu- lator ...	278	hooker filler (gas works) ...	699	horsehair drawer ...	363
hood maker, baby car ...	656	hooker fireman ...	736	horse hair dresser (drawing) ...	363
hood maker, basinette ...	658	hooker lad ...	089	horse hair dresser (finishing) ...	398
hood maker, Cape cart ...	658	hooker machine hand ...	362	horsehair dryer ...	363
hood maker (carriage, &c.) ...	658	hooker man, ash ...	699	horsehair dryer (drawing) ...	363
hood maker, pug coat ...	658	hookermen (barge, dock) ...	699	horse hair dresser (drawing) ...	363
hood maker (millinery) ...	408	hooker man (cotton) ...	099	horsehair dryer (drawing) ...	363
hood maker, motor car ...	658	hooker man (cups works) ...	089	horse hair dryer ...	363
hood maker, perambulator ...	658	hookerman, dredge ...	738	horse hair soaking weaver ...	370
hood polisher ...	410	hookerman, grain (docks) ...	745	horse hair sorter (carding) ...	363
hood shaver ...	410	hooker man (grain milling) ...	449	horse hair sorter (grading) ...	368
hook and eye carder ...	945	hooker minder (cotton blow- ing) ...	362	horse hair spinner ...	368
hook and eye maker ...	254	hooker minder (wool carding) ...	383	horse hair tender ...	363
hook and eye stamper ...	264	hook picker ...	024	horse hair warper ...	367
hooker, bark ...	176	hook presser ...	459	horsehair warper ...	367
hooker (boats) ...	425	hook room hand ...	459	horsehair warper (drawing) ...	363
hooker (cloth) ...	943	hook room man ...	459	horse hair warper (drawing) ...	363
hooker, cloth ...	943	hook sampler ...	769	horse hair warper (drawing) ...	363
hooker (coal mine) ...	043	hook set tender ...	839	horse hair warper (drawing) ...	363
hooker, finishing back ...	178	hook tier ...	024	horse hair warper (drawing) ...	363
hooker, finishing front ...	178	hook trainer ...	024	horse hair warper (drawing) ...	363
hooker (for cloth cutting) ...	178	horizontal borer ...	200	horse hair warper (drawing) ...	363
hooker, front ...	178	horizontal sawyer ...	481	horse hair warper (drawing) ...	363
hooker, jig ...	043	horn cutter ...	618	horse hair warper (drawing) ...	363
hooker, piece ...	943	horn cutter, back ...	618	horse hair warper (drawing) ...	363
hooker, rod ...	279	horn cutter, buffalo ...	618	horse hair warper (drawing) ...	363
hooker (rolling mill) ...	178	horn cutter, ring ...	618	horse hair warper (drawing) ...	363
hooker, roughing ...	178	horn worker ...	279	horse hair warper (drawing) ...	363
hooker, sand ...	706	horn haft cutter ...	613	horse hair warper (drawing) ...	363
hooker, transverser ...	706	horn handle cutter ...	613	horse hair warper (drawing) ...	363
hooker (wire rod mill) ...	279	horn handle turner ...	612	horse hair warper (drawing) ...	363
hooker, wire rod mill ...	279	horn opener ...	618	horse hair warper (drawing) ...	363
hooker-and-lapper ...	943	horn plate maker ...	613	horse hair warper (drawing) ...	363
hooker-as-shaft ...	043	horn raiser ...	613	horse hair warper (drawing) ...	363
hooker-in ...	176	horn tip cutter ...	613	horse hair warper (drawing) ...	363
hooker-off ...	043	horn turner ...	612	horse hair warper (drawing) ...	363
hooker-on (coal mine) ...	043	horn worker ...	618	horse hair warper (drawing) ...	363

	Code Number.		Code Number.		Code Number.
horseman (metal mine) ...	054	hot blast man ...	276	hub worker ...	200
horseman (on farm) ...	053	hot, drop stamper ...	190	hub worker, wheel ...	200
horseman, porter (shunting) ...	704	hubs breaker ...	796	huckster ...	777
horseman (ship) ...	737	hubs counter ...	314	huller ...	733
horseman (shunting) ...	704	hotel barist ...	929	hull engineer ...	244
horseman (slate mine or quarry) ...	073	hotel barman ...	914	huller ...	432
horse man (slab) ...	725	hotel inspector ...	914	human hair preparator ...	428
horseman (laundry & leather works) ...	339	hotel manager, temperance ...	914	humidifier attendant ...	398
horseman, under (on farm) ...	023	hotel porter ...	917	humorist ...	295
horse manager ...	715	hotel proprietor ...	914	bumper ...	883
horse marina ...	730	hotel valet ...	785	hunting cords maker ...	404
horse milliner ...	453	hotel yardman ...	929	hunt servant ...	399
horse nail cutter ...	190	hut house man ...	118	hurdle maker ...	485
horse nail forger ...	190	hot lacquerer ...	241	hurdler ...	485
horse nail driver man ...	190	hot metal guard ...	279	hurrer (coal mine) ...	043
horse omnibus driver ...	711	hot metal ladle duster ...	279	hurrer (metal mine) ...	054
horse pilotman ...	704	hot metal wogher (blast furnace) ...	339	husbandman ...	015
horse proprietor ...	711	hot moulder ...	543	husbandman (if not foreman) ...	024
horse repository keeper ...	731	hot packer ...	134	husk crusher ...	398
horse rug and blanket machinet ...	419	hot paler ...	279	husk mill hand (coconut fibre) ...	298
horse rug and blanket maker ...	428	hot plater ...	418	husk mill hand (hbr carding) ...	398
horse (horse hair) ...	428	hot potato man ...	777	husk sacker (coconut fibre) ...	043
horse (tiles) ...	118	hot presser (cloth finishing) ...	354	hatcher ...	263
horse shoe maker ...	190	hot presser (metal) ...	190	hutch greaser ...	047
horse shoe ...	150	hot presser (paper, cardboard) ...	518	hutch maker ...	474
horse shoe's mate ...	279	hot presser (printer's) ...	349	hutch maker ...	474
horse shoe stamper ...	190	hot presser (rubber) ...	648	hutch mender ...	852
horse shunter ...	704	hot roller (printer's) ...	648	hutch repairer ...	852
horse singer ...	725	hot roller (rolling mill) ...	178	hutch runner ...	043
horse slaughterer ...	909	hot room attendant ...	241	hut keeper (cillery) ...	047
horse superintendent (coal) ...	731	hot room hand ...	638	hut keeper (quarry, farm or estate) ...	929
horse superintendent (coal-tracker, &c.) ...	714	hot room lad ...	638	hydraulic blecker ...	409
horse trainer (coal mine) ...	047	hot saw man ...	278	hydraulic boiler man ...	951
horse trainer, colliery ...	047	hot saw worker ...	278	hydraulic bridge man ...	741
horse trainer (not race horses) ...	725	hot sawyer ...	278	hydraulic charger (puddling furnace) ...	278
horse transcar driver ...	722	hot stamper ...	190	hydraulic charger (rolling mill) ...	278
Hearrell bolt leader ...	278	hot straightener ...	190	hydraulic cleaner ...	279
horticulturnal frame maker ...	474	hot transcar ...	279	hydraulic crane driver ...	350
horticulturnal house maker ...	474	hot water bottle maker ...	648	hydraulic drillers ...	231
horticulturnal ...	013	hot water engine ...	240	hydraulic engineer (ship) ...	734
base armourer ...	608	hot water filter ...	240	hydraulic engine man ...	950
base cutter (gas mantle) ...	403	hot water pipe filter ...	251	hydraulic fireman ...	951
base cutter (rubber) ...	609	hour glass maker ...	322	hydraulic fitter ...	190
base hand, rubber ...	609	house agent ...	794	hydraulic foreman ...	406
base maker, embedded ...	608	house and estate agent ...	794	hydraulic lat block ...	757
base maker, leather ...	348	house boy, back ...	900	hydraulic boatman ...	700
base maker, leather ...	348	house boy (domestic) ...	900	hydraulic inspector ...	700
base maker (rubber) ...	608	house breaker ...	348	hydraulic jointer ...	278
base maker, suction ...	608	house carpenter ...	900	hydraulic lime drawer ...	098
base maker, vacuum brake ...	608	house chambermaid ...	900	hydraulic lime maker ...	082
base maker's assistant ...	609	house cleaner ...	922	hydraulic lime miller ...	098
base pipe weaver ...	370	house decorator ...	592	hydraulic lime picker ...	210
base stitchee ...	609	house drain layer ...	595	hydraulic machinery fitter ...	098
base, elastic ...	374	house drain repairer ...	595	hydraulic main attendant ...	698
base, surgical ...	374	house electrician ...	311	hydraulic main man (coke works) ...	008
base (wholesale, retail dealing) ...	770	house inspector ...	941	hydraulic main man (gas works) ...	699
basey cutter ...	402	house keeper, company ...	912	hydraulic packer (steam engines) ...	278
basey engineer ...	850	housekeeper (domestic) ...	900	hydraulic packer (textile goods) ...	943
basey examiner ...	373	housekeeper (in charge of coat) ...	921	hydraulic plate machine ...	222
basey finisher, elastic ...	394	housekeeper (theatre) ...	880	hydraulic press attendant (compressed paper) ...	659
basey frame letter ...	374	housekeeper, working ...	918	hydraulic press attendant (paper mill) ...	519
basey hand, silk ...	374	house laundrymaid ...	918	hydraulic presser ...	943
basey layer (knitted garments) ...	949	housemaid (domestic) ...	900	hydraulic press hand ...	519
basey layer (pressing) ...	389	housemaid-general ...	900	hydraulic pressman (celluloid) ...	619
basey machinet ...	374	housemaid, head ...	900	hydraulic press man (paper making) ...	519
basey maker-up ...	419	housemaid-waitress ...	900	hydraulic pressman (Siemens Martin) ...	190
basey mangle maker ...	436	houseminder ...	921	hydraulic pressman (solid tyre) ...	658
basey mender ...	419	house mother ...	913	hydraulic press operator ...	443
basey milliner ...	188	house painter ...	582	hydraulic press smith ...	190
basey needle cutter ...	278	house pointer ...	900	hydraulic press worker ...	190
basey needle maker ...	188	house porter ...	900	hydraulic repairer ...	244
basey needle moulder ...	384	house purchase agent ...	795	hydraulic riveter ...	255
basey presser ...	384	house repairer ...	563	hydraulic riveter attendant ...	255
basey printer ...	384	house ripper ...	388	hydraulic shafts worker ...	278
basey roller maker ...	486	house-sawing maid ...	900	hydraulic valve man ...	210
basey shape maker ...	486	house steward ...	900	hydra attendant (laundry) ...	398
basey shifter ...	389	house-table maid ...	900	hydro attendant (leather) ...	143
basey tabber ...	349	house thatcher ...	588	hydrochloric acid maker ...	143
basey transferee ...	374	house valuer ...	796	hydro-extracting machine ...	398
basey whale ...	374	house waitress ...	900	hydro-extractor (miller) ...	398
basey worker ...	374	housewife ...	738	hydro-extractor tender ...	143
basey instrument maker ...	662	hoyman ...	738	hydrogen bench attendant ...	143
basey orderly ...	329	hubber ...	190	hydrogen worker ...	750
basey porter ...	629	hub borer ...	200		
basey assistant ...	913	hub borer, wheel ...	200		
basey steward ...	725	hub driver ...	200		
basey ...	725	hub drill, wheel ...	200		
hot air man (blast furnace) ...	276	hub maker (cycle) ...	279		
hot air valvemaker ...	603	hub maker, cycle ...	279		
hot bank crossman ...	950	hub maker (perambulator) ...	200		
hot bankman ...	279	hub tapper ...	200		
hot bench man ...	279	hub tapper, wheel ...	200		
		hub turner ...	200		
		hub turner, wheel ...	200		

	Code Number.		Code Number.		Code Number.
inspector, coal (electricity supply, waterworks, gas works) ...	886	inspector, motor (tramcar depot) ...	714	inspector, travelling mineral train ...	700
inspector, coal (railway) ...	703	inspector, motor (tramway running repair) ...	308	inspector, travelling parcels ...	700
inspector, coke (coke works) ...	081	inspector (multiple shops) ...	773	inspector, travelling ticket ...	700
inspector, coke (gas works) ...	882	inspector, new works ...	703	inspector, tunnel ...	700
inspector (colliery) ...	041	inspector, night (colliery) ...	041	inspector, wagon (colliery) ...	041
inspector, cook ...	929	inspector, night (omnibus, trams) ...	714	inspector, wagon (non-metalliciferous mine or quarry) ...	071
inspector, crane ...	700	inspector, night (railway) ...	703	inspector, wagon (railway) ...	700
inspector, cylinder (oxygen) ...	148	inspector, night (waterworks) ...	692	inspector, wagon (railway wagon works) ...	658
inspector, day shift ...	041	inspector (non-metalliciferous mine or quarry) ...	071	inspector, waste (waterworks) ...	692
inspector, demurrage ...	700	inspector, office and booking ...	703	inspector, waste meter (waterworks) ...	692
inspector, depot ...	714	inspector, omnibus ...	714	inspector, waste water (waterworks) ...	692
inspector (dining car) ...	929	inspector, ore ...	051	inspector (waterworks) ...	692
inspector, distributing station ...	692	inspector, outdoor (dock) ...	731	inspector (waterworks) ...	692
inspector, districts (gas works) ...	692	inspector, outside machinery ...	703	inspector, water (waterworks) ...	692
inspector, district (omnibus) ...	714	inspector, overhead line ...	692	inspector, weighing machine (colliery) ...	041
inspector, district (railway) ...	700	inspector, overhead power ...	692	inspector, weighing machine (railway) ...	041
inspector, district (tramways) ...	714	inspector, painting ...	703	inspector, winding ...	041
inspector, district goods ...	700	inspector, parcels ...	700	inspector, windroad ...	041
inspector, district permanent way ...	714	inspector, passenger train ...	700	inspector (wool sorting) ...	352
inspector, district traffic ...	714	inspector, paving and extension (waterworks) ...	692	inspector, wool (wool sorting) ...	352
inspector, district travelling ...	700	inspector, permanent way (railway) ...	700	inspector, workmen's ...	041
inspector, divisional (omnibus) ...	714	inspector, permanent way (tramways) ...	714	inspector, yard (omnibus, tram) ...	714
inspector, divisional permanent way (tramways) ...	714	inspector, pithead ...	041	inspector, yard (railway) ...	700
inspector, divisional traffic (tramways) ...	714	inspector, platform ...	700	inspector in field (rolling mill) ...	738
inspector, dock ...	731	inspector, plough ...	714	inspector of barges ...	271
inspector, drainage ...	041	inspector (P.O. Engineering Dept.) ...	304	inspector of chains, bolts, tags, &c. ...	731
inspector, dynamometer car ...	700	inspector, police ...	700	inspector of colliery property ...	041
inspector (electrical) ...	303	inspector (printing works) ...	521	inspector of enginemen ...	700
inspector, electrical ...	692	inspector, private ...	714	inspector of fittings (waterworks) ...	692
inspector (electricity supply) ...	700	inspector, pump (road mine) ...	041	inspector of flats ...	731
inspector, fish ...	700	inspector, pump (metal mine) ...	051	inspector of fuse boxes ...	308
inspector, fish plate (rolling mill) ...	270	inspector, punch ...	714	inspector of lampholders (gas) ...	692
inspector, fittings (gas works) ...	692	inspector, race traffic ...	700	inspector of materials, chief ...	700
inspector, flushing ...	692	inspector, rail ...	700	inspector of materials, chief (Post Office) ...	751
inspector, frost area ...	700	inspector, rail motor ...	700	inspector of messengers (Post Office) ...	751
inspector (galvanised sheet) ...	273	inspector, railway carriage ...	714	inspector of new plumbing work (waterworks) ...	692
inspector, garment ...	401	inspector, receiving cabin ...	700	inspector of patrols (Automobile Association) ...	751
inspector, gas (railway) ...	700	inspector, reservoir ...	692	inspector of postmen ...	751
inspector, gas store ...	692	inspector, road (electricity supply) ...	692	inspector of postmen, assistant (Post Office) ...	751
inspector (gas works) ...	692	inspector, road (omnibus, tramway service) ...	714	inspector of rescue station ...	041
inspector, general ...	700	inspector, rolling stock ...	700	inspector of reservoirs (waterworks) ...	692
inspector (glass) ...	138	inspector, rope (coal mine) ...	051	inspector of risks ...	738
inspector, goods depot ...	700	inspector, rope (metal mine) ...	051	inspector of sheets ...	731
inspector, goods station ...	700	inspector, rope and chain ...	700	inspector of shipping ...	731
inspector, goods train ...	700	inspector, running department ...	700	inspector of stores ...	731
inspector, goods train travelling ...	700	inspector, sanitary (railway) ...	700	inspector of timber ...	731
inspector, goods yard ...	700	inspector, sanitary (waterworks) ...	692	inspector of tools &c. ...	731
inspector, grillage (gas works) ...	692	inspector, screen ...	041	inspector of weighing ...	731
inspector, guards ...	700	inspector, service ...	692	inspector's clerk ...	939
inspector, hall ...	706	inspector (sett) ...	561	inspectress (waiting room) ...	700
inspector, haulage rope ...	041	inspector, shackle ...	041	installation engineer, consumer's (electricity supply) ...	690
inspector, head office ...	700	inspector, sheet mill ...	273	installation engineer (electricity supply) ...	690
inspector, heap (colliery) ...	041	inspector, shop ...	273	installation inspector (electric cable, plant) ...	308
inspector, heap (metal mine) ...	051	inspector, shunting ...	714	installation inspector (electricity supply) ...	692
inspector, horse (colliery) ...	041	inspector, sidings ...	700	installation superintendent ...	692
inspector, horse (road transport) ...	714	inspector, signal ...	700	installation tester ...	308
inspector, hotel ...	914	inspector, signal and telegraph ...	700	installer, accumulator ...	312
inspector, house ...	041	inspector (slate, stone, &c.) ...	071	installer, wireless apparatus ...	409
inspector, hydraulic ...	700	inspector, station ...	700	instructor (hoist, above machinery) ...	314
inspector, installation (electric cable, plant) ...	308	inspector, stay (boilers) ...	273	instructor, armaments ...	899
inspector, installation (electricity supply) ...	692	inspector, stock ...	700	instructor (omnibus service and tramways) ...	700
inspector (insurance) ...	793	inspector, stores ...	700	instructor, technical electrical (tramways) ...	729
inspector, iron and steel work (iron foundry) ...	273	inspector, street fittings ...	692	inspector of lighthouse keepers ...	743
inspector, lamp (colliery) ...	041	inspector, street lighting ...	692	instrument (sewing machine) ...	799
inspector, lamp (gas works) ...	562	inspector, sub-station ...	692	instrument adjuster ...	309
inspector, lighting ...	700	inspector, telegraph ...	700	instrumentalist ...	696
inspector, lead ...	700	inspector, test room ...	308	instrument assembler (electric cable) ...	309
inspector, loading ...	041	inspector, ticket (railway) ...	705	instrument assembler, telephone ...	309
inspector, locking ...	700	inspector, ticket (tramway, omnibus) ...	714	instrument calibrator (electric cable) ...	309
inspector, locomotive ...	700	inspector, timber ...	471		
inspector, machine ...	700	inspector, timber (colliery) ...	041		
inspector, machinery (colliery) ...	041	inspector, timber (railway) ...	700		
inspector, machinery (railway) ...	700	inspector, time loading ...	700		
inspector, name ...	692	inspector, time bill ...	700		
inspector, marked ...	714	inspector, tinplate ...	273		
inspector, material ...	700	inspector, token ...	041		
inspector, meat ...	700	inspector, toll ...	700		
inspector, mechanical ...	700	inspector (tools) ...	273		
inspector (metal mine) ...	051	inspector, tracing ...	700		
inspector (metal works) ...	273	inspector, traffic (railway) ...	700		
inspector, meter (electricity supply) ...	692	inspector, traffic (tramways) ...	714		
inspector, motor (railway) ...	700	inspector, train ...	700		
inspector, motor (waterworks) ...	692	inspector, train wagon ...	714		
inspector, mine drainage ...	041	inspector, tramways ...	700		
inspector, mineral ...	700	inspector, travelling ...	700		
inspector, motor car ...	714	inspector, travelling engine ...	700		
inspector, motor (electricity supply) ...	692	inspector, travelling horse ...	700		
		inspector, travelling luggage ...	700		

	Code Number.		Code Number.		Code Number.
instrument calibrator, tele-	309	invalid carriage maker	475-6	iron plate worker (construc-	222
graph	309	invalid chair maker ...	473	tional ironwork) ...	222
instrument case maker, surgi-	473	invalid chair maker (wheeled	475-6	iron plate worker (sheet iron)	222
cal	473	carriage)	475-6	iron puddler	172
instrument case maker (wood)	473	invalid's attendant	529	iron roller	178
instrument fitter (electrical)	309	invasion man	448	iron roofer	226
instrument fitter, orthopedic	683	investment broker	732	iron roofing engineer ...	226
instrument fitter, telegraph ...	309	invisible mender	419	iron sawyer	279
instrument fitter, telephone ...	309	invoice affixer	706	iron shearer	279
instrument maker, acoustic ...	648	invoice attacher	706	iron shifter	279
instrument maker, brass musi-	648	invoice clerk	706	iron smith, angle	190
cal)	648	invoice detacher	706	iron smith, tank	190
instrument maker, dead	643	invoice man	706	iron sorter	279
instrument maker, dental	643	invoice poster	706	iron spear maker	222
instrument maker, drawing ...	322	iridium pointer	296	iron stocker (metal carrier)	279
instrument maker (electrical)	309	iron and steel work inspector	700	iron stocker, pig	279
instrument maker, electrical	309	iron and tin plate worker ...	264	ironstone borer	150
instrument maker, hospital ...	682	iron bar roller	173	ironstone breaker	279
instrument maker, mathemati-	322	iron bedstead chipper	173	ironstone chaser	150
cal	322	iron bender, clog	278	ironstone loader	279
instrument maker, meteorolo-	322	iron bender (metal works)	278	ironstone napper	279
gical	322	iron binder	279	ironstone rocker	279
instrument maker (musical)	640	iron borer	200	iron stealer	279
instrument maker, musical ...	322	iron boy	139	iron straightener	190
instrument maker (not electri-	322	iron breaker	212	iron straightener, sheet ...	264
cal or surgical)	322	iron breaker (foundry) ...	183	iron stretcher (smith) ...	190
instrument maker, optical ...	322	iron breaker, pug (puddling)	279	iron trader	279
instrument maker, orthopedic	683	iron cabinet maker	183	iron trimmer	183
instrument maker, percussion	648	iron cabinet fitter	278	iron trunk maker	200
instrument maker (Post Office	309	iron carrier (boilermaker's	223	iron turner	200
Engineering Department)	682	labourer)	223	iron unloader (metal works)	279
instrument maker, surgical ...	322	iron carrier (engineering	279	iron unloader, pig	279
instrument maker, surveying	309	works)	279	iron wheel riveter	255
instrument maker, telegraph ...	309	iron carrier (laundry) ...	918	iron wheel smith	190
instrument maker, telephone ...	309	iron catcher	183	iron wheel turner	190
instrument maker, wood win	648	iron canker	278	iron worker, art	221
instrument preparer, tele-	319	iron chair maker	180	iron worker (collary) ...	221
graph	319	iron checker (shipbuilding)	164-169	iron worker, constructional	226
instrument repairer	309	iron checker's assistant ...	279	iron worker, ecclesiastical	221
instrument wiper, telegraph ...	309	iron chisels dresser	183	iron worker, ferro-concrete's	580
instrument wiper, telephone ...	309	iron cleaner	183	iron worker (iron manufac-	278
insulating material maker ...	608	iron coat	180	ture)	278
insulation cutter	619	iron crystal man	143	iron worker, medieval ...	221
insulation hand	319	iron discharger	279	iron worker, ornamental	221
insulation maker, electrical	098	iron drummer	183	iron worker, sheet	254
(misc.)	098	iron drill	200	iron work erector	700
insulation maker (rubber or	609	ironer (artificial fowes)	689	ironwork inspector, chief	700
composition)	609	ironer, body	918	ironwork stripper	279
insulation tester (electric	308	ironer, boot	414	iron yardman (sawes)	279
cables and wires)	308	ironer, beam	918	irrigator	624
insulation tester (electric	308	ironer (clothing trades)	428	irrigation cutter	159
plant)	308	ironer, collar (hand)	918	irrigation maker	159
insulation varnisher	304	ironer (corsets)	406	irrigation roller	159
insulator, bitumen	319	ironer, corset	406	ironer, staves (railway)	941
insulator, cable	319	ironer, cuff	428	ironer, staves (works)	941
insulator, coil	304	ironer (dyeing and cleaning)	918	Italian workhouseman	770
insulator (electrical)	304	ironer (falk hats)	409	ivory cutler	237
insulator maker (porcelain)	105	ironer (fur making-up) ...	332	ivory grinder	237
insulator maker (rubber or	609	ironer (gloves)	428	ivory photographer ...	527
composition)	609	ironer, hand (laundry) ...	918	ivory artist, vegetable	618
insulator tuner	795	ironer, hand (straw hats)	409	ivory artist, vegetable	618
insurance agent (cannasser)	795	ironer, hat leather	428	ivory bleacher	618
insurance agent (chief)	794	ironer (hoosier)	384	ivory block-out	618
insurance auditor	793	ironer (laundry)	384	ivory brush maker	618
insurance broker	793	ironer (leather dressing)	335	ivory cleaver	618
insurance canvasser	795	ironer, shirt	918	ivory cutter, vegetable	618
insurance clerk	839	ironer, tap	414	ivory cutter, vegetable	618
insurance collector	795	ironer (umbrella, parasol)	416	ivory engraver, vegetable	618
insurance company's clerk ...	839	ironer and finisher	929	ivory engraver, vegetable	618
insurance sweeper	795	ironer and presser	929	ivory fitter	618
insurance traveller	795	ironer (piano hammers)	649	ivory handle cutter ...	618
intaglio cutter	126	iron fetter	183	ivory layer (piano keys)	618
intaglio printer	529	iron fighter	279	ivory lock-over	618
intaglio worker	126	iron fitter	226	ivory masher	618
intake man (grain milling)	449	iron forger	190	ivory nut cutter	618
intake man, grain	449	iron frame dasher	278	ivory piano lay cutter	618
intake-maker	319	iron fork maker (textile	278	ivory piano key maker	618
intake-maker	527	machinery)	278	ivory polisher	618
intake-maker	527	iron frame worker (piano)	648	ivory rounder	618
intake-maker	527	iron fute fitter	278	ivory sawyer	618
intake-maker	527	iron heater (forge)	190	ivory shaver	618
interlocking fitter (railway	519	iron heater (foundry) ...	220	ivory shaver	618
signals)	519	iron holder (foundry) ...	182	ivory slipper	618
intermediate box back tender	399	ironholder maker	419	ivory sorter	618
(fly frame)	399	iron hollow-wear chipper ...	183	ivory tip cutter	618
intermediate box tender (draw	363	iron hooper (packing-case)	849	ivory turner	612
frame)	363	iron handle dipper	279	ivory turner, vegetable	612
intermediate box tender (fly	363	ironman, hoop	279	ivory worker	618
frame)	363	iron man (colliery)	042		
intermediate draw box tender	399	ironmonger	210		
(fly frame)	399	ironmonger's fitter	210		
intermediate frame back	363	ironmonger's mechanic ...	245		
tender (fly frame)	363	ironmongery fitter	210		
intermediate machine minder	363	iron on breaker	279		
intermediate tender	363	iron on weighman	279		
interpreter (not Government	989	iron pattern fitter	210		
or on board ship)	989	iron plate	190		
interpreter (ship)	737	iron plate straightener ...	222		
lifer tender	363				
intertype operator	523				

	Code Number.		Code Number.		Code Number.
jack minder	373	Jewish slaughterer	448	jobbing jeweller	284
jack tenter	363	jib holman	442	jobbing man	284
jacquard card outer	396	jib lowerer	447	jobbing mounter	287
jacquard frame tender	393	jig and gauge maker	265	jobbing plater	222
jacquard harness builder	392	jig dyer	381	jobbing setter	254
jacquard harness knitter	397	jigger, bone	618	job buyer	770
jacquard harness maker	398	jigger (china clay)	674	job master (ash proprietor)	711
jacquard harness moulder	398	jigger (colliery)	643	jobmaster, motor	712
jacquard loom	398	jigger (leather)	335	jockey (colliery)	643
jacquard machine gaiter	356	jigger (metalliferous mine)	656	jockey (surf)	886
jacquard perforator	396	jigger (pottery)	115	jockey	643
jacquard puncher	396	jigger, spindle	270	jogger	519
jacquard stamper	396	jigger (textile dyeing)	381	jogger, machine	200
jacquard tackler	396	jigger (wood combing)	383	jogging machinist	200
jacquard weaver	396	jigger bay	643	Johnny-come-fortnightly	770
jac-about	395	jigger bee	444	Johnny Gorman	671
jam boiler	449	jiggerer (colliery)	643	joiner, cabin	473
jam filler	449	jiggerer (pottery)	105	joiner (cabinet work)	473
jam finisher	945	jiggerer, sanitary	105	joiner, carriage (textile machinery)	474
jam maker	436	jigger, lander	409	joiner, case (organ)	474
jam tier	945	jigger lad (colliery)	643	joiner, case (piano)	474
jam topper	945	jigger lad (railway)	705	joiner, chain	190
janitor (caretaker)	621	jigger man	708	joiner (chain making)	190
janitor (cinema)	889	jigger porter	105	joiner, coach	474
janitor	150	jigger turner	381	joiner (colliery)	474
japanned ornament	241	jigging machine attendant	381	joiner, film (film producing)	688
japanner (boots, shoes)	429	jig booker	643	joiner, foreman	471
japanner, edge tool	241	jig maker	265	joiner (garden furniture)	474
japanner, furniture	241	jig minder	643	joiner (hardware)	374
japanner, harness	241	jigsaw puzzle maker	638	joiner (iron)	474
japanner, leather	335	jig sawyer	431	joiner, loose	486
japanner (leather dressing)	335	jig setter	214	joiner, machine	474
japanner (metal)	241	jig tender (colliery)	643	joiner (maintenance)	474
japanner (pins)	279	jig tender (textile dyeing)	381	joiner, mill	474
japanner, plate lock	241	jig drill	200	joiner (on board ship)	735
japanner, stock lock	241	jig carrier	647	joiner, picture frame	485
japanner's ornament	241	jinney boy	674	joiner, printer's	474
japan polisher	241	jinney lad	643	joiner (rubber boots and shoes)	474
jaque man	356	jinneyman	643	joiner, self-actor	474
jar maker, rum and vinegar	185	jinney tender	519	joiner, ship	735
jar washer	970	jibber	364	joiner, ship's	474
jar washer	970	jibber, back	399	joiner, shop fitter's	474
jar washer	970	jibber, hand	399	joiner (silk dressing)	363
jar washer	970	jibber (boiler making)	223	joiner (textile spinning)	365
jar washer	970	jibber, braid	396	joiner (wood)	474
jar washer	970	jibber, card (cotton, woolen, worsted)	364	joiner (frame dresser)	363
jar washer	970	jibber, carding (cotton, woolen, worsted)	364	joiner machinist	486
jar washer	970	jibber, card room (cotton, woolen, worsted)	364	joiner minder	363
jar washer	970	jibber, clock	364	joiner-placer	486
jar washer	970	jibber, comb	364	joiner's labourer	486
jar washer	970	jibber, combing	364	joiner's machinist	486
jar washer	970	jibber (cotton)	364	joiner spinner	365
jar washer	970	jibber, double	398	joiner tender	363
jar washer	970	jibber, drainage	626	joiner-up	696
jar washer	970	jibber, drawing	398	joiner's works labourer	486
jar washer	970	jibber, dyehouse	398	joint cutter-out (steel manu- facture)	278
jar washer	970	jibber (farm worker)	626	jointer, action	239
jar washer	970	jibber, front	364	jointer, cable	311
jar washer	970	jibber (jewellery)	264	jointer (celluloid)	190
jar washer	970	jibber (leather belt)	343	jointer, chain	496
jar washer	970	jibber, lime	398	jointer (coopersage)	233
jar washer	970	jibber, loom	398	jointer (cutlery)	233
jar washer	970	jibber, loom	398	jointer, electric (electric cables)	311
jar washer	970	jibber, loom	398	jointer, electric conduit	311
jar washer	970	jibber (not loom, card or spin- ning room)	399	jointer (electric railways)	311
jar washer	970	jibber (paper tubes)	551	jointer, gun wire	278
jar washer	970	jibber, property	563	jointer, gutta percha	278
jar washer	970	jibber, ring	399	jointer, hydraulic	278
jar washer	970	jibber, scribbling	364	jointer, machine	486
jar washer	970	jibber (spectacle frame re- pairing)	322	jointer, main (waterworks and hydraulic power)	278
jar washer	970	jibber, spinning	398	jointer, pipe (drainage)	581
jar washer	970	jibber, stock	792	jointer, pipe (locomotives)	251
jar washer	970	jibber, stock and share	792	jointer, pipe (waterworks and hydraulic power)	278
jar washer	970	jibber (tannery or leather works)	333	jointer, sprinker pipe	251
jar washer	970	jibber, twining	398	jointer (water pipe)	278
jar washer	970	jibber, watch	323	jointer, wire (braded)	311
jar washer	970	jibber, watch and clock	323	jointer, wire (braded)	311
jar washer	970	jibber (wholesale, retail deal- ing)	770	jointer - plumber (electric cables)	311
jar washer	970	jibber (woolen and worsted)	464	jointer's assistant	319
jar washer	970	jibber and moulder	264	jointer's learner	319
jar washer	970	jibber and repairer (jewellery)	264	jointer's mate	319
jar washer	970	jibber and repairer (silver and white metal)	264	joint finisher	325
jar washer	970	jibber and winder, clock	343	jointless floor layer	571
jar washer	970	jibber lad	412	joint maker, asbestos	586
jar washer	970	jibbing boot maker	925	joint maker (bookbinding)	532
jar washer	970	jibbing butter	925	joint rammer (steel manu- facture)	278
jar washer	970	jibbing gardener	919	joint softener	220
jar washer	970	jibbing grinder	237	jollier	105
jar washer	970	jibbing grinder, edge tool	237	jordan man	518
jar washer	970	jibbing hand (repe and twine)	399	journeymen (colliery)	643

	Code Number.		Code Number.		Code Number.
journeyman (slate mine or quarry) ...	073	keeper, bucket shop ...	792	keeper, reservoir (water-works) ...	690
journeyman (stone mine or quarry) ...	072	keeper, canal wharf ...	963	keeper, restaurant ...	911
journeyman hatter ...	409	keeper (caretaker) ...	921	keeper, river ...	910
journey rider (colliery) ...	043	keeper, change house ...	056	keeper, safe deposit ...	940
journey rider (stone mine or quarry) ...	072	keeper, changing house ...	056	keeper, safety lamp ...	947
journey woman ...	922	keeper, chip potato bar ...	911	keeper, screen ...	947
jube maker ...	435	keeper, chip potato shop ...	911	keeper, ship ...	963
judge ...	344	keeper, cbop house ...	911	keeper, sick horse ...	725
juggler ...	899	keeper, coffee house ...	922	keeper, sluice (land drainage) ...	026
juglike maker ...	435	keeper, coffee room ...	911	keeper, sluice (river, canal, ditch) ...	741
jumbler ...	328	keeper, coffee stall ...	911	keeper, sluice bridge ...	741
jumble winter ...	367	keeper, coffee tavern ...	911	keeper, smith's pattern ...	941
jumper, bale ...	949	keeper (colliery rescue station) ...	041	keeper, spare hand ...	911
jumper, hose ...	613	keeper, common ...	939	keeper, square ...	013
jumper, Oliver ...	190	keeper, company ...	054	keeper, stable ...	725
jumper (omnibus, tramcar) ...	714	keeper, company house ...	912	keeper, staunch ...	741
jumper, pipe (gas works) ...	059	keeper, cook-shop ...	911	keeper, stock (farm) ...	022
jumper (rolling mill) ...	279	keeper, captive ...	016	keeper, stock (warehouse) ...	940
jumper (stone mine or quarry) ...	072	keeper, coal (gas) ...	933	keeper, supper bar ...	911
jumper knitter ...	375	keeper, count house ...	056	keeper, swing bridge ...	741
jumper maker (not knitted) ...	405	keeper, cricket ground ...	899	keeper, switch (colliery—below ground) ...	043
jumper-over (rolling mill) ...	279	keeper, crossing ...	910	keeper, switch (colliery—below ground) ...	043
jump ring maker ...	384	keeper, decoy ...	910	keeper, switch (metal mine) ...	704
junction box ...	043	keeper, deer park ...	910	keeper, tavern ...	914
junction maker ...	165	keeper, dining room ...	911	keeper, temperance hotel ...	914
junction man ...	043	keeper, donkey ...	729	keeper, terrace ...	729
junior audit clerk ...	939	keeper, door ...	047	keeper, terrace shop ...	731
junior clerk ...	939	keeper, door (hotel, etc.) ...	917	keeper, under (farm) ...	171
junior guard, tramcar ...	724	keeper, eating house ...	941	keeper, val ...	940
junior porter ...	766	keeper, eel shop ...	911	keeper, vault ...	940
junior turbine driver ...	939	keeper, fish (estate) ...	989	keeper, wardrobe ...	900
junior warehouse clerk ...	939	keeper, fish (river) ...	910	keeper, warehouse ...	940
junior ...	072	keeper, fishery (river) ...	910	keeper, warehouse (dock) ...	731
justice man ...	040	keeper, flap ...	989	keeper, watch-house ...	962
justifier (typefoundry) ...	278	keeper, flat ...	989	keeper, water ...	910
jute bag maker ...	417	keeper, floodgate ...	043	keeper, weighing machine ...	741
jute crusher attendant ...	362	keeper, football ground ...	899	keeper, weir ...	941
jute cutter (grading) ...	362	keeper, forest ...	016	keeper, wood ...	916
jute cutter (stripping machine) ...	399	keeper, fried fish shop ...	911	keeper, wool stock ...	940
jute hammerman ...	399	keeper, fruit stall ...	777	keeper, works (waterworks) ...	690
jute opener catcher ...	362	keeper, furnace (blast fur-nace) ...	171	keeper, zoological gardens ...	909
jute opener feeder ...	362	keeper, furnace (glass) ...	122	keeper, instructor (colliery rescue station) ...	041
jute spinner ...	390	keeper, gauge (waterworks) ...	096	keeper of cranes ...	731
jute stower ...	395	keeper, golf green ...	899	keeper of fox cover ...	910
jute stricker ...	398	keeper, government's institu-tion ...	913	keeper of weighing machines and materials ...	731
jute tier ...	399	keeper, granary ...	040	keeper's helper ...	279
jute twister ...	399	keeper, grass ...	939	keeper-up ...	449
jute weaver ...	370	keeper, ground ...	016	log maker, Guelph ...	477
jute winder (electric cables) ...	399	keeper, heath ...	016	log maker (sheet metal) ...	264
jute winder (textile mill) ...	367	keeper, horse (groom) ...	725	log maker (wood) ...	477
		keeper, horse repository ...	711	log collector ...	039
		keeper, horse (stone mine or quarry) ...	072	log cutter ...	039
		keeper, but (coal mine) ...	047	log gatherer ...	039
		keeper, but (quarry, farm or estate) ...	929	koneban ...	044
		keeper, buelie ...	043	kennel manager ...	899
		keeper, inn ...	914	koneban (for hunt) ...	899
		keeper, lamp (colliery) ...	047	kennel man (veterinary) ...	909
		keeper, lamp (railway) ...	706	Kentish rag digger ...	072
		keeper, landing ...	043	kerb dresser ...	575
		keeper, laundry ...	040	kerb layer ...	579
		keeper, level crossing ...	704	kerbstone maker ...	579
		keeper, lighthouse ...	742	kernel cleaner ...	579
		keeper, linen (domestic) ...	900	kernel (typefoundry) ...	278
		keeper, linen (ship) ...	737	karosene refiner ...	143
		keeper, lively stable ...	711	kaslerman ...	143
		keeper, loan office ...	734	kasnerman ...	143
		keeper, lobby ...	921	kechman ...	738
		keeper, lock ...	741	ketilla boy ...	449
		keeper, lock gate ...	962	kettle maker ...	072
		keeper, lodge ...	912	kettleman (blast furnace) ...	254
		keeper, lodging house ...	911	kettleman (compound cake) ...	159
		keeper, luncheon bar ...	912	kettle moulder (hollow-ware) ...	079
		keeper, magazines ...	941	kettle net fishermen ...	000
		keeper, mangle ...	910	ketiller ...	381
		keeper, market ...	939	kettle soldier ...	262
		keeper, menagerie ...	939	key and action maker (barrel organ) ...	648
		keeper, mortuary ...	921	key block maker (piano) ...	473
		keeper, news room ...	921	key cleaner ...	233
		keeper, office ...	921	key cutter, ivory piano ...	518
		keeper, off-take ...	043	key cutter (batch) ...	248
		keeper, oyster bar ...	911	key cutter (piano) ...	421
		keeper, oyster room ...	911	key drifter ...	280
		keeper, park ...	939	key filler ...	213
		keeper, pattern ...	911	key finisher (safe) ...	703
		keeper, pease-pudding shop ...	911	key forger ...	190
		keeper, pea shop ...	911	keyless adjuster ...	324
		keeper, penstock ...	962	keyless button maker ...	324
		keeper, pennyhole ...	911	keyless motioner ...	324
		keeper, pier gate ...	911		
		keeper, pit head cage ...	911		
		keeper, plan ...	949		
		keeper, pleasure pier gate ...	939		
		keeper, receiving house ...	940		
		keeper, registry office ...	771		

	Code Number.		Code Number.		Code Number.
keyless work assembler	324	kilnman (chalk, limestone, etc.)	092	knife cutter, hand	403
keyless work maker	324	kiln man, chamber (cement)	092	knife cutter, machine	403
key maker, clock	254	kiln man (clay house)	092	knife fitter (agricultural, book, shoe, etc., machinery)	210
key maker, ivory piano	618	kiln man (chemical works)	143	knife fitter, machine	210
key maker (latch)	243	kiln man, class	143	knife grinder	237
key maker, metal (wood wind musical instruments)	648	kiln man, colour drying	116	knife hammer, pen	228
key maker (organ)	489	kiln man, Dietrich	092	knife hammer, table	228
key maker, organ	498	kiln man (distillery)	452	knife hand	479
key maker (piano)	490	kiln man, dry	092	knifeman (clothing trades)	203
key maker, watch	254	kiln man, emery wheel	052	knifeman (domestic)	203
key maker (wood wind musical instruments)	648	kilnman, enamel	169	knifeman (fustian, velvet)	610
key piercer	254	kiln man (fertiliser)	043	knitter	374
key presser	254	kiln man, fuller's earth	136	knitter, bolt	374
key scaler	254	kiln man, glass	198	knitter, breeder	388
keysmith	243	kiln man (glaze)	198	knitter, carb (anvil)	387
key stamper	254	kiln man (grain milling)	448	knitter, curtain	376
key turner	200	kiln man, gypsum	092	knitter, elastic (dupes, dupes)	387
key turner, plate lock	200	kilnman, hardening-on	109	knitter, elastic kneecap	374
key turner, stock lock	200	kilnman, h.o.	109	knitter, frame work	374
kibble filler	054	kilnman (iron)	171	knitter, frame work (plastic bony)	374
kibbler (coals)	449	kiln man, lime	136	knitter, gas mantle	374
kibbler (colliers)	449	kiln man, mustard	448	knitter, gear	387
kibbler (oil cake)	449	kilnman, printer's	109	knitter, gravel	374
kibbler, rope	449	kiln man, rotary	092	knitter, hand	375
kibbourn	159	kiln man, seed (mustard)	448	knitter, hand frame work	375
knacker (die)	254	kilnman (stick making)	494	knitter, have	387
knacker, die	254	kiln man (sugar refining)	449	knitter, head	387
knacker (drop stamp)	279	kiln man, sulphuric acid	143	knitter, beddle	387
knacker, stamp	279	kilnman, terra cotta	109	knitter (hosiery frame)	374
knack stamper	254	kiln man (vitreous enamel)	143	knitter, jacquard harness	387
knack stamp worker	279	kilnman (vase hardening)	109	knitter, jumper	375
knier boiler (guncoction)	143	kilnman (silo)	143	knitter, machine	374
knier filler (explosion)	143	kiln minder (grain milling)	449	knitter, stocking	374
knier man (guncoction)	143	kiln packer (lime burning)	092	knitter, stocking machine	374
knier man (textile mill)	380	kiln packer (abrasive, emery wheels)	099	knitter, toe	374
knier minder	380	kiln scarer	279	knitter, warp loom (artificial silk)	370
kniesgahr grinder	143	kiln setter (bricks, tiles, fire- clay goods)	109	knitter, warp loom (cloth)	386
knives lad, alum	148	kiln setter (cement)	092	knitter, woolen	374
knives man, alum	148	kiln setter (limestone)	092	knitter mechanic	245
knives man (metal mine)	056	kiln setter	116	knitting frame worker	374
knives packer	056	kiln worker	143	knitting machine worker	374
knitter, pig	448	kiln three-out	449	knitting machine worker, hand	375
knitter (slaughter)	448	kiln trimmer (sugar refining)	449	knitting machinist	374
knitter attendant (cement)	099	kiln cutter	402	knitting pin maker, wooden	449
knitter attendant, gear	143	knitter (machine)	419	knobber (fish curing)	448
kiln burner (cement)	092	knitting hand (loose)	398	knobber, pin	279
kiln burner (chalk, limestone, etc.)	092	knit tailor	404	knobber (narrow)	572
kiln burner (bricks, tiles, etc.)	109	knit worker	043	knobber (rolling mill)	279
kiln burner, Schneider	082	knit worker (for stoves)	043	knob maker, china	148
kiln carrier	119	knit worker (stone cutting)	575	knob maker (stone cutting)	575
kiln charger (sugar refining)	449	knitter, block	043	knocker, bottom	118
kiln charging man (sugar re- fining)	449	knitter, bottom	043	knocker, cat	043
kiln drawer (bricks)	039	knitter, cat	043	knocker, flat	118
kiln drawer (cement)	039	knitter, flat	118	knocker, gutter bottom	118
kiln drawer (pottery)	109	knitter, gutter bottom	118	knocker-down, bleach	149
kiln drawer (sugar refining)	449	knitter, knock-down (bleaching pow- der)	149	knocker-down (bleaching pow- der)	149
kiln dresser	138	knitter, knock-out (foundry)	103	knocker-out, patent	099
kiln engine driver	950	knitter, knock-out, pin (Reamer)	279	knocker-out, pottery	118
kiln filler (bricks, pottery)	119	knitter, knock-up (boots)	428	knocker-up (printer's)	549
kiln filler (cement)	052	knitter, knock-up (workpiece)	379	knocker, piece	379
kiln filler (lime burning)	109	knit chipper (carpet)	379	knit chipper (dye)	379
kiln fireman (bricks)	109	knit hole man	074	knit picking machine hand	630
kiln fireman, colour	118	knit picking machine hand	630	knit picking machinist	630
kiln fireman (grain milling)	448	knitter (cloth examining)	379	knitter (cloth examining)	379
kiln fireman (pottery)	109	knitter (feathers)	398	knitter, fringe	398
kiln fireman (sugar refining)	449	knitter, hand silk	943	knitter, machine	388
kiln fire (bricks, tiles, fireclay goods)	109	knitter, piece	388	knitter, piece	388
kiln fire (glass)	122	knitter, quilt	388	knitter, quilt	388
kiln foreman (cement)	091	knitter (quilts, etc.)	388	knitter, reel	429
kiln foreman (half-burnt)	451	knitter (sack, bag)	429	knitter, silk tie	429
kiln grinder	099	knitter (textile mill)	398	knitter (thrown silk)	943
kiln hand (bricks, pottery)	119	knitter, tie	419	knitter (wig making)	428
kiln hand, glass	118	knitter (vare bundling)	943	knit tie (boots)	943
kiln labourer, brick	119	knit tie (vare)	943	knit tie (vare)	943
kiln labourer (cement, etc., works)	099	knit tie (vare)	943	knit tie (vare)	943
kiln labourer (miller's)	449	knit tie (vare)	943	knit tie (vare)	943
kiln labourer, oil	449	knit tie (vare)	943	knit tie (vare)	943
kiln labourer (vitreous enamel)	149	knit tie (vare)	943	knit tie (vare)	943
kiln labourer, wood drying	449	knit tie (vare)	943	knit tie (vare)	943
kiln lad, brick	119	knit tie (vare)	943	knit tie (vare)	943
kiln loader (cement)	092	knit tie (vare)	943	knit tie (vare)	943
kiln loader (lime burning)	092	knit tie (vare)	943	knit tie (vare)	943
kiln man, abrasive wheel	092	knit tie (vare)	943	knit tie (vare)	943
kiln man, acid	143	knit tie (vare)	943	knit tie (vare)	943
kilnman, biscuit	109	knit tie (vare)	943	knit tie (vare)	943
kiln man (brewery or malt kiln)	459	knit tie (vare)	943	knit tie (vare)	943
kilnman (bricks, pottery)	109	knit tie (vare)	943	knit tie (vare)	943
kilnman, carbon	639	knit tie (vare)	943	knit tie (vare)	943
kiln man, cement (burner)	062	knit tie (vare)	943	knit tie (vare)	943
kiln man (cereals)	449	knit tie (vare)	943	knit tie (vare)	943

	Code Number.		Code Number.		Code Number.
L		labourer, chemical	149	labourer, ghost oven	119
label boy (railway)	706	labourer, chemical plumber's	279	labourer, goods	706
label boy (warehouse)	943	labourer, chemical works	149	labourer, goss	970
label cutter (printer's)	548	labourer (clay, marl, sand)	074	labourer, grab	099
label cutter (stationer's)	553	labourer, cloth (card cloth- ing)	609	labourer, granolithic	581
label cutter (stationery)	553	labourer, coach	659	labourer, haulier's	729
lab-lor (aerated water, beer, etc.)	949	labourer, coach builder's	459	labourer, brewer's	042, 467
labeller, bottles	949	labourer, coach builder's (roll- ing stock)	659	labourer, highway department	581
labeller, bottle	949	labourer, coach painter's	539	labourer, hop ground	024
labeller (caps)	429	labourer, coal	047	labourer, house	970
labeller, card	539	labourer, coal derrick (staircase)	744	labourer, joiner's	499
labeller (cardboard boxes)	558	labourer, coal (electricity supply)	699	labourer, journey works	499
labeller, carriage	706	labourer, coal miner's (at face)	042	labourer, kiln (lime or cement)	099
labeller, coal	706	labourer, coal miner's (road- way, etc.)	047	labourer, kiln (miller's)	449
labeller, extra luggage	706	labourer, coal washer	089	labourer, laboratory	970
labeller, luggage	706	labourer, coal wharf (staircase)	744	labourer, laboratory (distillery, etc.)	459
labeller (mattices)	949	labourer, coke	089	labourer, lager dock	459
labeller, metal polish	949	labourer, coke factory	089	labourer, lamage	970
labeller, sheep dip	949	labourer, coke (gas works)	699	labourer, landlaid	970
labeller, train	706	labourer, coke hold (gas works)	699	labourer, landscape	025
labeller, truck	706	labourer, coke hole (gas works)	699	labourer, lead	599
labeller, wagon	706	labourer, coke mixer's (textile mill)	399	labourer, leading	581
labeller (warehouse)	949	labourer, colour mixer's (wall paper)	549	labourer, lime yard	339
label maker (stationery)	553	labourer, colour shop (wall paper)	549	labourer, linoleum maker's	639
label maker, wood	499	labourer, compositor's	549	labourer, loss shed	709
label penner	949	labourer, concrete paving slab worker's	279	labourer, machine (metal trade)	279
label printer	553	labourer, contractor's	047	labourer, machine (printer's)	549
label puncher	553	labourer, coppice	027	labourer, machine shop	279
label sorter	559	labourer, corn	449	labourer, market	970
label trimmer	429	labourer, corporation	370	labourer, marsh (drainage)	026
laboratory labourer	970	labourer, cottage	625	labourer, marsh (on marsh farm)	024
laboratory labourer (distillery, etc.)	459	labourer, cutter works	099	labourer, mason's	573
labourer, acid (explosives)	149	labourer, cow	072	labourer, mechanic's	246
labourer (acid works)	149	labourer, carrier's	339	labourer (metal mine)	054
labourer, advertising	970	labourer, day (coal mine)	047	labourer (metal works)	279
labourer, "A" list	745	labourer, day (metal mine, above ground)	056	labourer, mill (textile mill)	279
labourer, alkali	149	labourer, day (metal mine, below ground)	054	labourer, millwright's	319
labourer, aluminium foundry	189	labourer, deep sinking	581	labourer, miner's	054
labourer, aquarium	970	labourer, delph	072	labourer, mine sinker's	581
labourer, arsenic	149	labourer, deliver's	072	labourer, mint	279
labourer, ash pit	709	labourer, destructor	970	labourer, monumental mason's	573
labourer, asphalt's	531	labourer (dock)	745	labourer, mortar mill	554
labourer, auctioneer's	970	labourer, dock	745	labourer, mosaic worker's	584
labourer, back side	279	labourer, dock board	745	labourer, moulder's	183
labourer, ballast crushing	581	labourer, dockyard	970	labourer, nickel	279
labourer (ballast pit)	074	labourer, drainage	025	labourer, nursery	025
labourer, bank (colliery)	047	labourer, dressing floors	055	labourer, orchard	025
labourer, bank (metal mine)	054	labourer, drum (fur, leather)	339	labourer, oven	119
labourer, barker's	399	labourer, dry dock	889	labourer, painter's	599
labourer, barrack	970	labourer, dyer's (hat making)	429	labourer (paper mill)	519
labourer, basic slag	099	labourer, dyer's (leather)	339	labourer, park	970
labourer, batch	139	labourer, dyer's (textile mill)	381	labourer, paste lead	499
labourer, batch mixer's	970	labourer, electric cable laying	581	labourer, pattern maker's	499
labourer, beach	970	labourer, electrician's	319	labourer, pavilion's	381
labourer, bell founder's	185	labourer, electric track (rail- ways)	577	labourer, permanent	745
labourer, billet cutter's	279	labourer, engineer's	246	labourer, permanent way (con- tractor's navy)	581
labourer, black lead	099	labourer, erector's	213	labourer, permanent way (maintenance underman)	577
labourer, blast furnace	279	labourer, estate	024	labourer, pier	749
labourer, "B" list	745	labourer, fen drainage	099	labourer, pier works	581
labourer, blue mill	159	labourer, filter	699	labourer, pipe (contractor's)	581
labourer, boat	738	labourer, filter-bed	599	labourer, pipe pit	181
labourer, boatman	738	labourer, fitter's	213	labourer, pipe track	581
labourer, boiler house	970	labourer, fitter's (finger's)	399	labourer, pit brow	949
labourer, boiler maker's	223	labourer, flux	399	labourer, pit (coal mine)	049
labourer, boiler shop common	223	labourer, foundry	183	labourer, pit (leather)	339
labourer, boiler tube fitter's	223	labourer, front	279	labourer, pit (metal mine)	054
labourer, boiler yard	279	labourer, front side	279	labourer, pit (non-metallic ferrous pipe or quarry)	076
labourer, boy	149	labourer, fruit canning	449	labourer, plantation	027
labourer, brass finisher's	279	labourer, fruit farm	025	labourer, plasterer's	368
labourer, brass fitter's	279	labourer, fruit plantation	025	labourer, plaster works	099
labourer, brass founder's	185	labourer, gardener's	699	labourer, plate's	223
labourer, brass oven	099	labourer, gas	699	labourer, plumber's	223
labourer, brewer's	459	labourer, gas fitter's	236	labourer, policy	099
labourer (brewery, distillery, etc.)	459	labourer, gas house	699	labourer (Post Office stores)	759
labourer, brickroft	119	labourer, gas works	699	labourer, post bank	119
labourer, bricked	119	labourer, general (farm)	024	labourer, preference	745
labourer, bricklayer's	509	labourer, general (metal trades)	279	labourer, pressman's (printing works)	549
labourer, brickyard	119	labourer, glasshouse	133	labourer, printer's (textile printing)	399
labourer, bridge tarring	577			labourer, public works	531
labourer, brooms	279			labourer, purifier (gas works)	699
labourer, builder's	554			labourer, quarry	072
labourer, bulb fern	025			labourer, rail yard	499
labourer, by-product	089			labourer, railway (contractor's navy)	581
labourer (cables)	319				
labourer, calisher (zinc)	279				
labourer, canal bank	531				
labourer, carpenter's	499				
labourer, carriage works	659				
labourer, carrier's	729				
labourer, caterer's	185				
labourer, cement	099				
labourer (cement, &c., works)	099				
labourer, cemetery	970				

Code Number.	Code Number.	Code Number.	
labourer, railway (platelayer)	577	lace tagger, boot	429
labourer, underman	578	lace tagger (mohair, silk &c.)	429
labourer, wireman	579	lace tagger, stay	429
labourer, refiner's	580	lace tacker, fancy	376
labourer, regulated	745	lace warehouse hand	385
labourer, rectifier (gas works)	695	lace warehouse worker	385
labourer, rheum	639	lace weaver, coach	370
labourer, rhine	639	lace worker, blond (hand)	377
labourer, rigger's	669	lace worker, blond (machine)	376
labourer, rine	639	lace worker, fancy	376
labourer, river	581	lace worker (hand)	377
labourer, riveter's	556	lace worker (machine)	376
labourer, road	582	lace worker (machine)	376
labourer, roll foundry	583	lace worker (machine)	376
labourer, rolling mill	279	lace worker (machine)	376
labourer, rope walk	399	lace worker (machine)	376
labourer, sack store	699	lace worker (machine)	376
labourer, sailor	279	lace worker (machine)	376
labourer, sailor gang (metal trades)	279	lace worker (machine)	376
labourer, sailor gang (ship-yards)	669	lace worker (machine)	376
labourer, sailer's	669	lace worker (machine)	376
labourer, salvage	970	lace worker (machine)	376
labourer, sand blast	279	lace worker (machine)	376
labourer, sanitary	970	lace worker (machine)	376
labourer, saw mill	499	lace worker (machine)	376
labourer, sawyer's	499	lace worker (machine)	376
labourer, scrap works	279	lace worker (machine)	376
labourer, sea greye	581	lace worker (machine)	376
labourer, sea wall	581	lace worker (machine)	376
labourer, sewage disposal	670	lace worker (machine)	376
labourer, sewer	370	lace worker (machine)	376
labourer, shed (mason's)	573	lace worker (machine)	376
labourer, shed (railway)	709	lace worker (machine)	376
labourer, ship	745	lace worker (machine)	376
labourer, ship fitter's	225	lace worker (machine)	376
labourer, ship joiner's	599	lace worker (machine)	376
labourer, ship painter's	599	lace worker (machine)	376
labourer, ship quay	745	lace worker (machine)	376
labourer, shipwright's	430	lace worker (machine)	376
labourer, shipyard	669	lace worker (machine)	376
labourer, shore gang	669	lace worker (machine)	376
labourer, silica works	699	lace worker (machine)	376
labourer, skin yard	333	lace worker (machine)	376
labourer, slasher's	399	lace worker (machine)	376
labourer, slate mine or quarry	673	lace worker (machine)	376
labourer, slater	585	lace worker (machine)	376
labourer, slate works	585	lace worker (machine)	376
labourer, slip	669	lace worker (machine)	376
labourer, slipway	669	lace worker (machine)	376
labourer, smithy	279	lace worker (machine)	376
labourer, spade	624	lace worker (machine)	376
labourer, stable	725	lace worker (machine)	376
labourer, stamp	654	lace worker (machine)	376
labourer, steam roller	573	lace worker (machine)	376
labourer, steel press	573	lace worker (machine)	376
labourer, steeplehead's	745	lace worker (machine)	376
labourer, stone heap	649	lace worker (machine)	376
labourer, stonemason's	647	lace worker (machine)	376
labourer, stone mine or quarry	672	lace worker (machine)	376
labourer, stone works	589	lace worker (machine)	376
labourer, street	581	lace worker (machine)	376
labourer, street mason's	581	lace worker (machine)	376
labourer, strip mill	279	lace worker (machine)	376
labourer, sulphate	669	lace worker (machine)	376
labourer, sulphate plant	149	lace worker (machine)	376
labourer, surface (coal mine)	649	lace worker (machine)	376
labourer, surface (highway)	581	lace worker (machine)	376
labourer, surface (metal mine)	656	lace worker (machine)	376
labourer, tanner's	339	lace worker (machine)	376
labourer, tanyard	339	lace worker (machine)	376
labourer, tape	339	lace worker (machine)	376
labourer, tapers	369	lace worker (machine)	376
labourer, tar pavier's	531	lace worker (machine)	376
labourer, tar works	149	lace worker (machine)	376
labourer, telegraph (G.P.O.)	319	lace worker (machine)	376
labourer, telephone (G.P.O.)	319	lace worker (machine)	376
labourer, textile mill	399	lace worker (machine)	376
labourer, tillage works	149	lace worker (machine)	376
labourer, timber cutter's	499	lace worker (machine)	376
labourer, timberman's	644	lace worker (machine)	376
labourer, timber yard	499	lace worker (machine)	376
labourer, tin floor	656	lace worker (machine)	376
labourer, tinner's	279	lace worker (machine)	376
labourer, tin stream	656	lace worker (machine)	376
labourer, trench	581	lace worker (machine)	376
labourer, tuber's	223	lace worker (machine)	376
labourer, turf	939	lace worker (machine)	376
labourer, underground (coal mine)	547	lace worker (machine)	376
labourer, underground (con-tractor)	581	lace worker (machine)	376
labourer, underground (metal mine)	654	lace worker (machine)	376
labourer, valve (gas works)	699	lace worker (machine)	376
labourer, valves (coal oven)	669	lace worker (machine)	376
labourer, wagon works	559	lace worker (machine)	376
labourer, watchmaker	649	lace worker (machine)	376
labourer, watch clock works	629	lace worker (machine)	376
labourer, watercourse	639	lace worker (machine)	376
labourer, water track	581	lace worker (machine)	376
labourer, well bore's	581	lace worker (machine)	376
labourer, well sinker's	581	lace worker (machine)	376
labourer, wheel	279	lace worker (machine)	376
labourer, wheeler's	499	lace worker (machine)	376
labourer, wheel maker's	379	lace worker (machine)	376
labourer, wheel garth	499	lace worker (machine)	376
labourer, wireman's	319	lace worker (machine)	376
labourer, wire mill	279	lace worker (machine)	376
labourer (wood)	499	lace worker, point	377
labourer, wood (coppie, &c.)	627	lace machine operator	555
labourer, wood drying kiln	499	lace machine (cables)	319
labourer, wood planing machine	499	lace machine, cold	592
labourer, wood yard	499	lace machine, hot	241
labourer, works and wags	581	lace machine (metal articles)	241
labourer, departments	581	lace machine (not metal)	592
labourer, yard	570	lace machine (upholstering)	548
labourer, yard (cement, patent fuel, &c., works)	699	lace machine (upholstering)	548
labourer, yard (coal mine)	649	lace machine (upholstering)	548
labourer, yard (coal works)	699	lace machine (upholstering)	548
labourer, yard (farm)	622	lace machine (upholstering)	548
labourer, yard (foundry)	279	lace machine (upholstering)	548
labourer, yard (metal mine)	581	lace machine (upholstering)	548
labourer, yard (wood)	581	lace machine (upholstering)	548
labourer, zinc	279	lace machine (upholstering)	548
labourer in rod hot	499	lace machine (upholstering)	548
labourer on loading stage	499	lace machine (upholstering)	548
labour master	731	lace machine (upholstering)	548
lace and rope maker	348	lace machine (upholstering)	548
lace beamer	367	lace machine (upholstering)	548
lace beamer, machine	367	lace machine (upholstering)	548
lace carriage maker	278	lace machine (upholstering)	548
lace cleaner	365	lace machine (upholstering)	548
lace designer	392	lace machine (upholstering)	548
lace dipper	398	lace machine (upholstering)	548
lace paper maker	552	lace machine (upholstering)	548
lace draughtman	392	lace machine (upholstering)	548
lace sewer	343	lace machine (upholstering)	548
lace duchess	365	lace machine (upholstering)	548
lace embroidery maker	379	lace machine (upholstering)	548
lace finisher	379	lace machine (upholstering)	548
lace knitter	385	lace machine (upholstering)	548
lace gown maker	411	lace machine (upholstering)	548
lace hand	398	lace machine (upholstering)	548
lace machine bobbin and carriage straightener	210	lace machine (upholstering)	548
lace machine builder	210	lace machine (upholstering)	548
lace machine tenter	376	lace machine (upholstering)	548
lace machinist, Swiss	376	lace machine (upholstering)	548
lace maker, blind (hand)	376	lace machine (upholstering)	548
lace maker, blind (machine)	376	lace machine (upholstering)	548
lace maker, boot	376	lace machine (upholstering)	548
lace maker, curtain	376	lace machine (upholstering)	548
lace maker, fancy	376	lace machine (upholstering)	548
lace maker, hair	429	lace machine (upholstering)	548
lace maker (hand)	377	lace machine (upholstering)	548
lace maker, Lenoir	376	lace machine (upholstering)	548
lace maker (machine)	376	lace machine (upholstering)	548
lace maker, pillow	376	lace machine (upholstering)	548
lace maker, plain set	376	lace machine (upholstering)	548
lace maker, pouter	376	lace machine (upholstering)	548
lace maker, tambour	376	lace machine (upholstering)	548
lace maker, tinsel	376	lace machine (upholstering)	548
lace maker, torchon (head)	376	lace machine (upholstering)	548
lace maker, torchon (machine)	376	lace machine (upholstering)	548
lace maker, warp	376	lace machine (upholstering)	548
lace man	376	lace machine (upholstering)	548
lace measure	376	lace machine (upholstering)	548
lace mender, blond	376	lace machine (upholstering)	548
lace mender, fancy	376	lace machine (upholstering)	548
lace mender, point	376	lace machine (upholstering)	548
lacer (boots)	429	lace machine (upholstering)	548
lacer, card	396	lace machine (upholstering)	548
lacer, card cutter's	396	lace machine (upholstering)	548
lacer, chain	396	lace machine (upholstering)	548
lacer (corsets)	429	lace machine (upholstering)	548
lacer, cork	429	lace machine (upholstering)	548
lacer, dolly	396	lace machine (upholstering)	548
lacer, dress guard	429	lace machine (upholstering)	548
lacer (fancy paper goods)	552	lace machine (upholstering)	548
lacer, jacquard	396	lace machine (upholstering)	548
lacer (jacquard, &c., cards)	396	lace machine (upholstering)	548
lacer, jacquard card	396	lace machine (upholstering)	548
lacer (patron cards)	396	lace machine (upholstering)	548
lacer, silk	371	lace machine (upholstering)	548
lacer, silk	371	lace machine (upholstering)	548
lacer, silk	371	lace machine (upholstering)	548
lacer, wheel (cycles)	278	lace machine (upholstering)	548
lacer and driller, wheel	278	lace machine (upholstering)	548

Code Number.		Code Number.		Code Number.	
lamp inspector (coal mine) ...	841	lapper, axle bush ...	238	lath operator, Gisholt ...	200
lamp inspector (gas works) ...	892	lapper, barrel (small arm) ...	238	lath operator, turret ...	210
lamp keeper (coal mine) ...	847	lapper, bitumen (cables) ...	319	lath polisher (metal) ...	238
lamp keeper (railway) ...	706	lapper, block (glassworks) ...	139	lath polisher (silver and plate) ...	285
lamp lad ...	706	lapper, block (polishing pad)	688	lather (pottery) ...	119
lamp lighter (coal mine) ...	847	lapper (blowing and sentching)	362	lather (glassing) ...	320
lamp lighter (railway) ...	706	lapper (cloth) ...	343	lath trader ...	119
lamp lighter (street) ...	899	lapper, cloth ...	343	lath turner, capstan ...	200
lamp locker ...	847	lapper, cotton ...	319	lath turner, turret ...	200
lamp lustre enameller ...	138	lapper, end ...	365	lath worker, capstan ...	200
lamp lustre gilder ...	138	lapper (flax and heap) ...	943	lath worker ...	567
lamp lustre maker ...	125	lapper, flax ...	298	lath writer ...	279
lamp maker, arc ...	309	lapper, glass ...	298	lath tender ...	498
lamp maker, carriage ...	204	lapper, jeweller's ...	238	lath river ...	498
lamp maker, cycle ...	264	lapper (jewellery) ...	238	lath splitter ...	498
lamp maker (motor, etc.) ...	264	lapper, line ...	943		
lamp maker, motor car ...	264	lapper, machine ...	943		
lampman, brake ...	706	lapper (metal polishing) ...	238		
lampman, carriage ...	709	lapper, paper ...	319		
lampman (coal mine) ...	847	lapper (pencil tyres) ...	609		
lampman (dock) ...	748	lapper (silk) ...	363		
lampman, foreman ...	706	lapper, silver ...	363		
lampman, head ...	849	lapper (small arms) ...	238		
lampman (metal mine) ...	856	lapper, tape ...	943		
lampman, painter ...	706	lapper (tapes) ...	943		
lampman (railway) ...	706	lapper (tube welding) ...	266		
lampman, signal ...	706	lapper (warehouse) ...	943		
lampman, station ...	706	lapper-on ...	943		
lamp man (street, works) ...	889	lapper tenter ...	399		
lampman and point cleaner ...	706	lapper-up (cutlery) ...	327		
lamp oiler ...	847	lapper-up, flyer ...	238		
lamp pecker ...	944	lapper-up (textile warehouse)	943		
lamp porter ...	706	lapper maker (textile machin- ery) ...	279		
lamp post fixer ...	581	lap picker (card room) ...	399		
lamproom boy ...	847	lap picker (silk) ...	399		
lamproom foreman ...	706	lap picker ...	399		
lamproom girl ...	849	lap picker (cotton) ...	363		
lamproom lad ...	847	lapease sweeper ...	411		
lamproom man ...	706	lap springer ...	363		
lamp room porter ...	706	lap tenter (rotten donblang) ...	362		
lamproom porter, foreman ...	706	lap tenter (cotton scutching)	362		
lamp shade maker (mixed materials) ...	558	lap tenter (silk) ...	363		
lamp shade maker (paper) ...	558	lap tenter, silver ...	363		
lamp shade maker (silk) ...	428	lap tenter (wool) ...	363		
lamp trimmer, arc ...	698	lap thrower-on ...	362		
lamp trimmer (electric arc lamp) ...	749	larder attendant ...	800		
lamp trimmer (on board ship) ...	735	larder cook ...	800		
lamp trimmer (railway) ...	706	lard maker ...	448		
lamp trimmer (street, works) ...	899	lard refiner ...	448		
lance forger ...	180	lard renderer ...	448		
land agent ...	796	laser ...	735		
land agent and surveyor ...	796	lasher (bleach works) ...	399		
land bailiff ...	810	lasher (canal buoys) ...	418		
land drainer ...	826	lasher (felt hats) ...	429		
lander (coal mine) ...	849	lasher-on ...	403		
lander (metal mine) ...	858	last concaver ...	406		
lander, run ...	843	last ...	414		
lander (plate mine or quarry)	873	last, boot ...	415		
landing attendant ...	043	last (clags) ...	415		
landing keeper ...	043	last, second ...	415		
landing lad (coal mine) ...	843	last, shoe ...	414		
landing lad (metal mine) ...	854	last-up ...	414		
landing minder ...	043	last machine operator ...	414		
landing stage man ...	741	last maker, boot (wood) ...	498		
landing stage master ...	741	last plaster ...	264		
landing stage seaman ...	741	last plaster, boot ...	264		
handbody (inn) ...	814	last settler (ginsapping)	398		
handbody (lodging) ...	812	last sorter ...	429		
handford (inn) ...	814	last spring fastener ...	498		
handford (lodging) ...	812	last toe and heeler ...	498		
handford's halliff ...	889	last turner, boot ...	498		
hand mixer ...	794	latcher (colliery) ...	840		
hand pipe drainer ...	861	latcher, loco ...	794		
handale labourer ...	026	latcher (hoedlase) ...	278		
handale manager (colliery) ...	770	latcher (railway) ...	794		
hand salesman ...	798	latch lock maker ...	243		
handrape gardener ...	013	latch maker ...	243		
handscape labourer ...	025	latch maker, combination ...	243		
hand steward ...	010	latch maker, bush ...	243		
hand tile drainer ...	028	latch maker, mortise ...	243		
hand valmer ...	794	latch maker, night ...	243		
handern slide maker ...	527	latch maker, thumb ...	243		
handyard maker ...	478	latchman ...	704		
haphard maker ...	498	latch needle hand ...	374		
lan breaker-off ...	363	lath cleaver ...	498		
lap carrier ...	362	lath cutter ...	254		
lap feeder (on cards) ...	363	lath attendant ...	200		
lap feeder (on scutcher) ...	362	lath brusher ...	238		
lap framer ...	363	lath band, brass ...	200		
lapinary ...	694	lath band, capstan ...	200		
lap layer ...	943	lath band (metal) ...	200		
lap machine minder ...	362	lath band (rubber) ...	608		
lap machine tender ...	362	lath band, turret ...	200		
lap man ...	843	lathman, brass ...	224		
lapper, apprentice ...	843	lathman (metal) ...	200		
lapper, axle box ...	238	lath operator, capstan ...	200		

	Code Number.		Code Number.		Code Number.
layer, patent floor (composition)	571	lead furnace man (white lead works)	171	learner, signal	703
layer, patent floor (wood)	438	lead glazier	363	lease litter	358
layer, pile	581	lead glass, church	369	lease picker	379
layer, pipe (coal mine)	047	lead glazier, first	563	leasee	369
layer, pipe (contractor's)	581	lead house man	118	leash maker	344
layer, pipe (gas and water works)	578	leading ballast loader	581	leather band maker	343
layer, rail (tramway)	577	leading cleaner	699	leather band or belt cutter	342
layer, road	577	leading cloak room attendant	706	leather belt maker	348
layer (rope)	373	leading draughtsman	932	leather binder	532
layer, rope	373	leading driver (railways)	474	leather brace maker	348
layer, sanitary pipe	581	leading fitter	687	leather bucket maker	348
layer, service (contractor's)	581	leading foreman	740	leather case book maker	532
layer, service (electricity)	578	leading furnaceman	171	leather case maker	345
layer, service (gas)	578	leading hand (building trades)	541	leather case maker (book-binder's)	532
layer, service (water)	578	leading hand (char house)	463	leather classer	336
layer (spinning)	365	leading hand (explosives)	148	leather diagram maker	348
layer, stone	581	leading labourer	581	leather dresser, Spanish	335
layer, tar	579	leading ladies' waiting room attendant	709	leather embosser	532
layer, tile	571	leading lost property office attendant	706	leather enamel	335
layer, tramway (wood paving)	579	leading man (contractor's)	581	leatherer	419
layer, tray	949	leading man, first (railways)	577	leathers (ball bearings)	238
layer, vulcanite roofing	570	leading packer (railway)	349	leather finisher	355
layer, wire (rope)	259	leading packer (warehouse)	449	leather girth	344
layer, wire rope	259	leading parcel porter	706	leather girth maker	344
layer, wood floor	494	leading platelayer	577	leather goods maker, fancy	348
layer-down (brick works)	399	leading porter	706	leather goods polisher	349
layer-down (textile finishing)	399	leading roadman	581	leather goods worker, fancy	348
layer-in	384	leading shunter	704	leather hose maker	348
layer man (leather works)	338	leading stoker	551	leather japanner	335
layer man (tanyard)	333	leading stoker	740	leather leather maker	348
layer-on, bobbin	399	leading surfaceman (railway)	577	leather machine man	334
layer-on (cardboard boxes)	558	lead labourer	581	leather machinist	348
layer-on (die dressing)	279	lead layer (pencils)	099	leather maker, coach	225
layer-on, gold (printer's)	537	lead light fitter	369	leather maker, gilt	225
layer-on, machine	530	lead light maker	569	leather mop maker	668
layer-on, machine ruler	530	lead maker, black	099	leather nailer	338
layer-on, platen	530	lead maker, orange	143	leather polisher	335
layer-on of gold	537	lead maker, printer's	278	leather pouch liner	348
layer-on (printer's)	530	lead man (sulphuric acid works)	143	leather pouch maker	348
layer-on, ring frame	399	lead mill foreman	091	leather purse maker	348
layer-on (road making)	581	lead mill man (black lead)	099	leather roller coverer	348
layer-on, roving	399	lead mill man, sheet	173	leather sheet maker	348
layer-on (wood carding)	363	lead miner	091	leather softener	334
layer-on (worsted spinning)	399	lead mixer	098	leather stainer	338
layer-out (celluloid)	619	lead murrer, foreman (lead pencils)	091	leather sticher	504
layer-out (cordite)	149	lead mixer, foreman (lead pencils)	091	leather stover (drying)	338
layer-out (gelatine)	159	lead mixer, liquid	099	leather stover (enamelling)	335
layer-out (glass)	138	lead mixer (pencils)	099	leather teller	404
layer-out (glove making)	423	lead modeller	278	leather trimmer	504
layer-out, glue	159	lead oxide maker	143	leather trunk maker	345
layer-out (glue, size)	159	lead oxide pot man	143	leather tyer	348
layer-out (grey rosin)	159	lead painter	099	leather worker (artificial limbs)	348
layer-out (leather dressing)	338	lead pencil maker	688	leather worker, fancy	348
layer-out (tan yard)	333	lead pipe maker	278	leather worker (furniture, etc.)	504
layer-out, tobacco	469	lead plate press man	278	leather worker, hat	334
layer-out, yarn	399	lead plate cutter	183	leather worker (leather dresses)	334
layer-out of heads	481	lead plate guillotine	278	leather worker (leather goods)	348
layer-out of heads	929	lead plate trimmer	278	leather worker, orthopaedic	348
layer-out, leather	536	lead press driver	098	leatherman (waterworks)	699
layer-up (feather box)	536	lead press man	279	lecker, piece (burling)	379
layer-up (for cutter)	429	lead press potman	279	lecker, piece (damping)	384
layer-up (for multiple cutter)	429	lead rammer	278	lecture agent	881
layer-up (parquet)	539	lead roller	178	ledger clerk	339
leach water	339	lead roller, sheet	178	ledger clerk (book-keeper)	339
leacher (tannery labourer)	339	lead roller, tea	319	ledger clerk, bought	339
leacher (tannery supervisor)	339	lead sheet (cables)	178	left luggage attendant	706
leachman (tannery labourer)	339	lead sheet roller	178	left luggage clerk	339
leachman (tannery supervisor)	339	lead squitter (cartridges)	278	left luggage porter	706
lead burner	242	lead turner	200	leg block maker (piano)	498
lead hatter's helper	253	lead window maker	549	legger, dolly	396
lead maker (foundry)	188	lead worker (accumulators)	302	legger, flyer	396
lead maker (not foundry)	278	lead worker (cartridges)	279	legger (book-keeper)	374
lead caster (printer's)	278	lead worker (lead pencils)	098	legger (heavy finishing)	384
lead caster, tea	198	lead worker, tea	178	legger in tunnel (canal boat)	738
lead caster (type)	278	lead worker in stained glass	569	legging cutter	342
lead chaser	278	leaf and fern painter	688	legging maker, leather	348
lead coremaker	279	leaf blender	468	leghorn blocker	409
lead coverer (cables)	318	leaf cutter, gold and/or silver	238	leg maker (piano)	486
leader, black	514	leaf cutter, silver	238	lehr assistant	139
leader, chock	047	leaf damper	468	lehr drawer	139
leader, choppe	047	leaf maker (artificial flowers)	688	lehrman	138
leader, coal	719	leaf opener	468	lemon cheese maker	448
leader (coal mine)	043	leaf room man	469	lemon cooker	448
leader (horse driver)	719	leaf shaver	588	lemon curd maker	448
leader (metal mine)	054	leaf sorter (oigar)	468	lemon cutter	448
leader, phone house	561	leaf sticker (artificial leaves)	688	lemon splitter	448
leader, red	808	leaf stripper	468	lemon, barrow	757
leader, section	932	leaf wetter	468	leader, money	739
leader, stallion	023	leaf worker (artificial flowers)	468	lengthener	384
leader, timber (carter)	719	leaf kiln man	138	length ganger (railway)	591
leader, timber (coal mine)	047	leaf man	138	lengthman, first (railway)	577
leader, timber (metal mine)	054	leaf minder	138	lengthman (railway)	577
leader, water (coal mine)	047	learner, cinematograph	887	lens adjuster	322
leader, wood	047				
lead finisher	949				

Code Number.		Code Number.		Code Number.	
lens balsamer	138	leveller and straightener (roll- ing stock)	278	ligger, bobbin	399
lens cleaner	138	levelling machine operator	429	ligger-on, bobbin	399
lens cutter	138	levelling plaster (boilers and tanks)	278	ligger-on, rag	399
lens grinder	138	levelling stove maker	322	ligger-on (wool carding)	363
lens grinder (optical)	138	lever and roller maker	324	light and bell attendant	311
lens grinder (spectacle lens)	138	lever boy (rolling mill)	279	light and bell examiner	311
lens maker (optical, etc.)	138	leverer (rolling mill, steel foundry)	279	light attendant, electric	311
lens maker, railway signal	125	lever escapement maker	324	light carrier	706
lens moulder	138	lever lace maker	376	lighter, hack	947
lens moulder	322	lever lock maker	243	lighter, carriage	769
lens mount maker	322	leverman, coke (gas works)	699	lighter (slew)	190
lens polisher	138	lever man (rolling mill)	279	lighter, fire (hotel, office, etc.)	829
lens rougher	138	leverman (steel forge)	190	lighter, fire (railway)	708
lens rougher	138	leverman riveter	255	lighter, gas (gas works)	699
lens setter	322	lever worker	254	lighter, gas (steel)	949
lens setting maker	322	lengator	148	lighter, lamp (coal mine)	947
lens worker	138	Len's machine gun maker	239	lighter, lamp (railway)	706
lens worker, achromatic	138	librarian (circulating)	770	lighter, lamp (street)	708
lens worker, micro-objective	138	librarian (shop)	737	lighter, shot	947
lessee	940	librarian (shop)	737	lighter, signal	706
lessee of tolls	729	library assistant	737	lighter boy	738
lessee	940	library steward	737	lighter discharger	745
lessee (tannery laborer)	333	licensed broker	737	lightman	738
lessee (tannery supervisor)	333	licensed driver	738	lightman, foreman	738
lessee, gas maker	143	licensed messenger	738	lightman	738
lessee, winder	367	licensed porter	738	lightman	738
letter, bargain	673	licensed virtualist	914	lightman	738
letter, barrow	729	licensed virtualist's assistant	915	lightman	738
letter, bell chair	729	licensing tender, chaf (omni- bus)	729	lighting engineer, street	681
letter, chair	729	lichter, back	947	lighting engineer, works	681
letter, donkey	729	lid backer	698	lighting fitter	698
letter, hand truck	729	lid cleaner	698	lighting inspector (railway)	700
letter, horse	711	lid closer	698	lighting inspector, street	692
letter, seat	929	lifter (boot polish)	940	lighting superintendent	692
letter, wheelbarrow	729	lifter (cardboard boxes)	558	light keeper	742
letter boy, colliery	758	lifter-up	559	light pecker (felt hats)	949
letter carrier	753	lift man (coke oven)	698	light pecker	222
letter carrier (railway)	706	lift man (gas works)	698	light porter	738
letter carrier, brass	424	lift operator	698	lightship man	742
letter carrier, steel	206	lift shifter	698	lightman	742
letter carrier, wood	485	lier, bobbin	399	lime evaporator man	449
letter carrier, wood	485	lier, roving	399	lime buffer	238
letter cutter, brass	194	lime belt maker (cork)	638	lime burner	692
letter cutter, brass (moulder)	138	lime-boatman	738	lime burner, blue line	692
letter cutter (architectural, sculptor's)	574	lime buoy maker (cork)	638	lime burner, foreman	692
letter cutter, brass	224	lift attendant	757	lime burner, gray stone	692
letter cutter (die making)	230	lift attendant (ship)	737	lime drafter	698
letter cutter (glass)	138	lift ebopper	413	lime drawer, blue line	698
letter cutter, glass	58	lift cutter	413	lime drawer (bain)	698
letter cutter, steel	260	lift driver	190	lime drawer (tanyard)	333
letter cutter, wood	493	lift engine man	950	lime drawer	149
letter cutter (woodcarring)	485	lift elevator	210	lime filler (blast furnace)	279
letter cutter, wood (carving)	485	lifter, bar	279	lime filler (lime works)	699
letter engraver, monumental	574	lifter, beam	367	lime foreman	331
letterer, basket	499	lifter, box	153	lime handler	333
letterer, piece	389	lifter, butt	333	lime hauler	333
letterer (piece of cloth)	389	lifter, carriage	389	lime house man	333
letterer (rolling stock)	583	lifter, cloth	389	lime jobber	333
letterer (signifying)	394	lifter, coke	389	lime juice cordial maker	458
letter finisher (metal)	279	lifter, door	279	lime kiln man	692
letter finisher (type)	485	lifter (hair carding)	389	lime kiln operator	887
letter finisher, wood	485	lifter, ingot	279	lime maker	692
letter fixer, brass	588	lifter (iron and steel tub roll- ing)	279	lime maker, blue line	692
letter fixer, steel	588	lifter, lens (tube)	389	lime maker, stone	692
letter founder	278	lifter, pump	279	lime man (blast furnace)	699
letter maker, wood	485	lifter, pig (blast furnace)	279	lime man (water gas)	699
letter messenger	706	lifter, pig (steel works)	279	lime miller	699
letter office attendant	238	lifter, pug	279	lime miller, blue line	699
letter-on	706	lifter, pug (railway coach)	279	lime miller, hydraulic	699
letter press binder	529	lifter, rope and twine	389	lime miller, stone	699
letterpress machine minder	529	lifter, scrap (steel works)	279	lime mixer (sewage works)	970
letterpress printer	529	lifter, sack	119	lime mixer (silica works)	698
letter roller lock maker	243	lifter, tile	119	lime pecker	698
letter sorter (G.P.O.)	753	lifter, wagon	279	lime picker, blue line	699
letter sorter (railway)	554	lifter (warehouse)	642	lime pointer	238
letter writer	554	lifter maker (plate)	119	limer, bleach	149
levant dresser	335	lifter-off	279	limer (iron works)	279
levant	335	lifter-out, pig (blast furnace)	279	limer (textile bleaching)	380
levant finisher	335	lifter-up, iron and steel foundry	183	lime ranner	699
level crossing gateman	704	lifter-up, red mill	279	lime ranner	333
level crossing keeper	704	lifterup (rolling mill)	279	lime ranner	333
level crossing man	704	lift girl	757	lime sorter	699
level-hand (paddler)	772	lift lad	757	lime stone breaker (blast fur- nace)	279
leveler (boots)	429	lift loader	757	lime stone filler (blast furnace)	279
leveler, bottom (boots)	429	lift machineman, asphalt	413	lime stone filler (lime burning)	692
leveler, bottom (clog soles)	488	lift maker (boots)	414	lime stone quarry	072
leveler (coal mine)	047	lift maker (wood)	498	lime tank attendant (sugar re- fining)	449
leveler, coke oven	047	lift man	757	lime transfer	699
leveler (coke ovens)	039	liftman (blast furnace)	279	lime washer	596
leveler (copper plate)	548	lift man, gentry	429	lime worker	333
leveler, ore	039	lift sorter	429		
leveler, plate (boilers and tanks rolling stock)	278	lift worker	757		
leveler, plate (ship plates)	222				
leveler, purifier (gas works)	699				
leveler (scales)	278				
leveler (sugar refining)	449				

Code Number.		Code Number.		Code Number.	
line yard handler ...	333	liner, packing case (sheet metal) ...	264	linotype assistant ...	548
line yard labourer ...	339	liner, packing case (warehouse) ...	949	linotype boy ...	548
lining machine minder ...	380	liner, paper maché ...	558	linotype fitter ...	210
lining man ...	158	liner, picture ...	989	linotype labourer ...	549
linenman machinist ...	496	liner, pipe case ...	989	linotype man (machine operator) ...	523
line cleaner ...	699	liner (pottery) ...	160	linotype man (operator's assistant) ...	519
line dresser ...	323	liner (safe) ...	258	linotype mechanic ...	245
line etcher ...	536	liner (series and weighing machines) ...	582	linotype operator ...	523
line finisher ...	396	liner, sheet (cardboard boxes) ...	559	linseed cake maker ...	159
line lapper ...	943	liner (sheet metal) ...	284	linseed crusher ...	159
line maker, blind (house machine) ...	373	liner (shiplanking) ...	276	linseed presser ...	159
line maker, blind (plating machine) ...	386	liner, tube (water) ...	510	linier (cloth examiner) ...	379
line maker, clock ...	373	liner, work board ...	582	linier (dark) ...	399
line maker, clothes ...	373	liner, table ...	688	linier (seed crushing) ...	159
line maker, furnished (hanging tackle) ...	648	linier, table and cabinet ...	588	linier lad ...	159
line maker (house machine) ...	373	linier (timber) ...	493	lin winder ...	367
line maker on hand line walk ...	373	linier, tin ...	449	lin winder ...	367
line maker, plaited ...	366	linier, tube (tuba) ...	108	lin winder ...	367
line maker, sack ...	373	linier, work basket ...	105	lin winder ...	367
line maker, walk ...	373	linier, work box ...	688	lin winder ...	367
lineman, chief (overhead signal system) ...	311	linier and finisher ...	558	lin winder ...	367
lineman, chief (signal house) ...	261	linier-in (Gaulish kegs) ...	427	lin winder ...	367
lineman, diver's life ...	569	linier-in (hats) ...	427	lin winder ...	367
lineman (electrical) ...	311	linier-in (tailoring) ...	419	lin winder ...	367
lineman, electric signal (railway) ...	311	linier-off (Gaulish kegs) ...	419	lin winder ...	367
lineman, gas (railway) ...	235	linier-off (machine shop) ...	568	lin winder ...	367
lineman, signal ...	361	linier-off (shipyard) ...	568	lin winder ...	367
lineman (teletype, telephone) ...	311	linier-out ...	210	lin winder ...	367
lineman, telegraph (railway) ...	311	linier-up (dynamo) ...	210	lin winder ...	367
lineman, telephone (railway) ...	311	linier-up (photography) ...	527	lin winder ...	367
lineman, under (railway) ...	311	linier upon test plate ...	210	lin winder ...	367
lineman's assistant ...	311	linier, tube (water) ...	510	lin winder ...	367
linen attendant (domestic) ...	560	linier, work basket ...	105	lin winder ...	367
linen attendant (railway) ...	796	linier, work box ...	688	lin winder ...	367
linen button cutter ...	254	linier and finisher ...	558	lin winder ...	367
linen button maker ...	699	linier-in (Gaulish kegs) ...	427	lin winder ...	367
linen checker ...	929	linier-in (hats) ...	427	lin winder ...	367
linen cutter ...	429	linier-in (tailoring) ...	419	lin winder ...	367
linen dryer ...	398	linier-off (Gaulish kegs) ...	419	lin winder ...	367
linen (flax) winder ...	367	linier-off (machine shop) ...	568	lin winder ...	367
linenier ...	518	linier-off (shipyard) ...	568	lin winder ...	367
linen keeper (domestic) ...	909	linier-out ...	210	lin winder ...	367
linen keeper (ship) ...	727	linier-up (dynamo) ...	210	lin winder ...	367
linen machine back tender ...	518	linier-up (photography) ...	527	lin winder ...	367
linen machine man ...	518	linier upon test plate ...	210	lin winder ...	367
linen maid ...	909	linier, tube (water) ...	510	lin winder ...	367
linen picker ...	964	linier, work basket ...	105	lin winder ...	367
linen room attendant ...	708	linier, work box ...	688	lin winder ...	367
linen room maid ...	960	linier and finisher ...	558	lin winder ...	367
linen sorter ...	954	linier-in (Gaulish kegs) ...	427	lin winder ...	367
linen thread polisher ...	368	linier-in (hats) ...	427	lin winder ...	367
line operator ...	526	linier-in (tailoring) ...	419	lin winder ...	367
line preparer ...	363	linier-off (Gaulish kegs) ...	419	lin winder ...	367
line roller ...	399	linier-off (machine shop) ...	568	lin winder ...	367
liner, bag ...	399	linier-off (shipyard) ...	568	lin winder ...	367
liner, biscuit ...	345	linier-out ...	210	lin winder ...	367
liner, board (cardboard boxes) ...	109	linier-up (dynamo) ...	210	lin winder ...	367
liner (bookbinder's) ...	537	linier-up (photography) ...	527	lin winder ...	367
liner, box (margarine) ...	949	linier upon test plate ...	210	lin winder ...	367
liner, brush case ...	688	linier, tube (water) ...	510	lin winder ...	367
liner (cabinet) ...	564	linier, work basket ...	105	lin winder ...	367
liner, cabinet case (Siler-up) ...	688	linier, work box ...	688	lin winder ...	367
liner, cabinet case (pinner) ...	592	linier and finisher ...	558	lin winder ...	367
liner, case (brush jewel, pipe, etc.) ...	688	linier-in (Gaulish kegs) ...	427	lin winder ...	367
liner, cigar box (paper) ...	559	linier-in (hats) ...	427	lin winder ...	367
liner (clothing) ...	419	linier-in (tailoring) ...	419	lin winder ...	367
liner, colour (enamele) ...	593	linier-off (Gaulish kegs) ...	419	lin winder ...	367
liner, colour (paint) ...	593	linier-off (machine shop) ...	568	lin winder ...	367
liner (cycle) ...	593	linier-off (shipyard) ...	568	lin winder ...	367
liner, cycle (enamele) ...	241	linier-out ...	210	lin winder ...	367
liner (enamelling) ...	241	linier-up (dynamo) ...	210	lin winder ...	367
liner, engine ...	210	linier-up (photography) ...	527	lin winder ...	367
liner, fan (perambulators) ...	593	linier upon test plate ...	210	lin winder ...	367
liner, furnace ...	368	linier, tube (water) ...	510	lin winder ...	367
liner (furs) ...	332	linier, work basket ...	105	lin winder ...	367
liner (hat) ...	428	linier, work box ...	688	lin winder ...	367
liner, gloves ...	411	linier and finisher ...	558	lin winder ...	367
liner (gloves) ...	411	linier-in (Gaulish kegs) ...	427	lin winder ...	367
liner, gold (cycles) ...	593	linier-in (hats) ...	427	lin winder ...	367
liner, gold (cycles) ...	593	linier-in (tailoring) ...	419	lin winder ...	367
liner, gold (enamele) ...	241	linier-off (Gaulish kegs) ...	419	lin winder ...	367
liner (hats) ...	428	linier-off (machine shop) ...	568	lin winder ...	367
liner, hat leather ...	429	linier-off (shipyard) ...	568	lin winder ...	367
liner, hat leather gas ...	429	linier-out ...	210	lin winder ...	367
liner, jewel case ...	688	linier-up (dynamo) ...	210	lin winder ...	367
liner, ladle ...	276	linier-up (photography) ...	527	lin winder ...	367
liner, leather pouch ...	346	linier upon test plate ...	210	lin winder ...	367
liner, machine ...	592	linier, tube (water) ...	510	lin winder ...	367
liner (machine shop) ...	210	linier, work basket ...	105	lin winder ...	367
liner, oak ...	429	linier, work box ...	688	lin winder ...	367
liner, ore ...	565	linier and finisher ...	558	lin winder ...	367
		linier-in (Gaulish kegs) ...	427	lin winder ...	367
		linier-in (hats) ...	427	lin winder ...	367
		linier-in (tailoring) ...	419	lin winder ...	367
		linier-off (Gaulish kegs) ...	419	lin winder ...	367
		linier-off (machine shop) ...	568	lin winder ...	367
		linier-off (shipyard) ...	568	lin winder ...	367
		linier-out ...	210	lin winder ...	367
		linier-up (dynamo) ...	210	lin winder ...	367
		linier-up (photography) ...	527	lin winder ...	367
		linier upon test plate ...	210	lin winder ...	367
		linier, tube (water) ...	510	lin winder ...	367
		linier, work basket ...	105	lin winder ...	367
		linier, work box ...	688	lin winder ...	367
		linier and finisher ...	558	lin winder ...	367
		linier-in (Gaulish kegs) ...	427	lin winder ...	367
		linier-in (hats) ...	427	lin winder ...	367
		linier-in (tailoring) ...	419	lin winder ...	367
		linier-off (Gaulish kegs) ...	419	lin winder ...	367
		linier-off (machine shop) ...	568	lin winder ...	367
		linier-off (shipyard) ...	568	lin winder ...	367
		linier-out ...	210	lin winder ...	367
		linier-up (dynamo) ...	210	lin winder ...	367
		linier-up (photography) ...	527	lin winder ...	367
		linier upon test plate ...	210	lin winder ...	367
		linier, tube (water) ...	510	lin winder ...	367
		linier, work basket ...	105	lin winder ...	367
		linier, work box ...	688	lin winder ...	367
		linier and finisher ...	558	lin winder ...	367
		linier-in (Gaulish kegs) ...	427	lin winder ...	367
		linier-in (hats) ...	427	lin winder ...	367
		linier-in (tailoring) ...	419	lin winder ...	367
		linier-off (Gaulish kegs) ...	419	lin winder ...	367
		linier-off (machine shop) ...	568	lin winder ...	367
		linier-off (shipyard) ...	568	lin winder ...	367
		linier-out ...	210	lin winder ...	367
		linier-up (dynamo) ...	210	lin winder ...	367
		linier-up (photography) ...	527	lin winder ...	367
		linier upon test plate ...	210	lin winder ...	367
		linier, tube (water) ...	510	lin winder ...	367
		linier, work basket ...	105	lin winder ...	367
		linier, work box ...	688	lin winder ...	367
		linier and finisher ...	558	lin winder ...	367
		linier-in (Gaulish kegs) ...	427	lin winder ...	367
		linier-in (hats) ...	427	lin winder ...	367
		linier-in (tailoring) ...	419	lin winder ...	367
		linier-off (Gaulish kegs) ...	419	lin winder ...	367
		linier-off (machine shop) ...	568	lin winder ...	367
		linier-off (shipyard) ...	568	lin winder ...	367
		linier-out ...	210	lin winder ...	367
		linier-up (dynamo) ...	210	lin winder ...	367
		linier-up (photography) ...	527	lin winder ...	367
		linier upon test plate ...	210	lin winder ...	367
		linier, tube (water) ...	510	lin winder ...	367
		linier, work basket ...	105	lin winder ...	367
		linier, work box ...	688	lin winder ...	367
		linier and finisher ...	558	lin winder ...	367
		linier-in (Gaulish kegs) ...	427	lin winder ...	367
		linier-in (hats) ...	427	lin winder ...	367
		linier-in (tailoring) ...	419	lin winder ...	367
		linier-off (Gaulish kegs) ...	419	lin winder ...	367
		linier-off (machine shop) ...	568	lin winder ...	367
		linier-off (shipyard) ...	568	lin winder ...	367
		linier-out ...	210	lin winder ...	367
		linier-up (dynamo) ...	210	lin winder ...	367
		linier-up (photography) ...	527	lin winder ...	367
		linier upon test plate ...	210	lin winder ...	367
		linier, tube (water) ...	510	lin winder ...	367
		linier, work basket ...	105	lin winder ...	367
		linier, work box ...	688	lin winder ...	367
		linier and finisher ...	558	lin winder ...	367
		linier-in (Gaulish kegs) ...	427	lin winder ...	367
		linier-in (hats) ...	427	lin winder ...	367
		linier-in (tailoring) ...	419	lin winder ...	367
		linier-off (Gaulish kegs) ...	419	lin winder ...	367
		linier-off (machine shop) ...	568	lin winder ...	367
		linier-off (shipyard) ...	568	lin winder ...	367
		linier-out ...	210	lin winder ...	367
		linier-up (dynamo) ...	210	lin winder ...	367
		linier-up (photography) ...	527	lin winder ...	367
		linier upon test plate ...	210	lin winder ...	367
		linier, tube (water) ...	510	lin winder ...	367
		linier, work basket ...	105	lin winder ...	367
		linier, work box ...	688	lin winder ...	367
		linier and finisher ...	558	lin winder ...	367
		linier-in (Gaulish kegs) ...	427	lin winder ...	367
		linier-in (hats) ...	427	lin winder ...	367
		linier-in (tailoring) ...	419	lin winder ...	367
		linier-off (Gaulish kegs) ...	419	lin winder ...	367
		linier-off (machine shop) ...	568	lin winder ...	367
		linier-off (shipyard) ...	568	lin winder ...	367
		linier-out ...	210	lin winder ...	367
		linier-up (dynamo) ...	210	lin winder ...	367
		linier-up (photography) ...	527	lin winder ...	367
		linier upon test plate ...	210	lin winder ...	367
		linier, tube (water) ...	510	lin winder ...	367
		linier, work basket ...	105	lin winder ...	367
		linier, work box ...	688	lin winder ...	367
		linier and finisher ...	558	lin winder ...	367
		linier-in (Gaulish kegs) ...	427	lin winder ...	367
		linier-in (hats) ...	427	lin winder ...	367
		linier-in (tailoring) ...	419	lin winder ...	367
		linier-off (Gaulish kegs) ...	419	lin winder ...	367
		linier-off (machine shop) ...	568	lin winder ...	367
		linier-off (shipyard) ...	568	lin winder ...	367
		linier-out ...	210	lin winder ...	367
		linier-up (dynamo) ...	210	lin winder ...	367
		linier-up (photography) ...	527	lin winder ...	367
		linier upon test plate ...	210	lin winder ...	367
		linier, tube (water) ...	510	lin winder ...	367
		linier, work basket ...	105	lin winder ...	367
		linier, work box ...	688	lin winder ...	367
		linier and finisher ...	558	lin winder ...	367
		linier-in (Gaulish kegs) ...	427	lin winder ...	367
		linier-in (hats) ...	427	lin winder ...	367
		linier-in (tailoring) ...	419	lin winder ...	367
		linier-off (Gaulish kegs) ...	419	lin winder ...	367
		linier-off (machine shop) ...	568	lin winder ...	367
		linier-off (shipyard) ...	568	lin winder ...	367
		linier-out ...	210	lin winder ...	367
		linier-up (dynamo) ...	210	lin winder ...	367
		linier-up (photography) ...	527	lin winder ...	367
		linier upon test plate ...	210	lin winder ...	367
		linier, tube (water) ...	510	lin winder ...	367
		linier, work basket ...	105	lin winder ...	367
		linier, work box ...	688	lin winder ...	367
		linier and finisher ...	558	lin winder ...	367
		linier-in (Gaulish kegs) ...	427	lin winder ...	367
		linier-in (hats)			

Code Number	Code Number	Code Number
lithograph preparer ... 108	loader, timber (railway) ... 706	locksmith, stock ... 243
lithograph transferer ... 109	loader, truck ... 043	lock sticher ... 414
little backster ... 519	loader, in ... 043	lock stocker, plate ... 496
little beaver ... 011	loader, van ... 729	lock tender ... 741
little peeler (cotton) ... 399	loader, wagon (metal mine) ... 058	lock, crane driver ... 950
little tender (4y frame) ... 399	loader, wagon (pottery) ... 119	loco, driver, slag ... 950
little tender, raving frame ... 399	loader, wagon (tar macadam) ... 089	loco, driver (works loco-motive) ... 701
live roller and skid lad ... 279	loader, warehouse (goods depot) ... 729	loco, foreman ... 704
livery stable helper ... 725	loader, warehouse (railway) ... 706	loco, inspector ... 704
livery stable keeper ... 711	loader, wheel ... 709	loco, man, slag ... 950
livery stable manager ... 711	loader, whiting ... 069	locomotive driver ... 701
livery stable proprietor ... 711	loader, wood ... 499	locomotive erecter ... 210
live stock auctioneer ... 796	loader and driver ... 042	locomotive fireman (railway) ... 701
Lloyd's agent ... 793	loader and stower, baggage ... 706	locomotive fireman (works or mine) ... 701
Lloyd's signman ... 749	loader and unloader ... 279	locomotive fitter ... 218
load adjuster ... 706	loadmaster ... 042	locomotive foreman ... 700
loader (saw liner) ... 759	loader oddman ... 042	locomotive inspector ... 700
loader, ale ... 459	load examiner ... 700	locomotive running super-intendent ... 700
loader, ash ... 709	loading foreman, horse ... 706	locomotive superintendent, district ... 700
loader, ballast and sand ... 577	loading inspector, boat ... 731	locomotive superintendent, divisional ... 700
loader, bar ... 279	loading inspector (coal mine) ... 040	locomotive turner ... 200
loader, bar mill ... 279	loading inspector, timber ... 701	locomotive yard foreman ... 700
loader, barrow ... 119	loading observer (tramway, omnibus) ... 714	loco, running superintendent ... 700
loader, boom ... 279	load inspector ... 700	loco, shed labourer ... 709
loader, boat ... 743	load recorder ... 709	loco, superintendent ... 700
loader, breast ... 023	loam cutter ... 184	lodge boy ... 967
loader (brewery) ... 459	loam dresser ... 183	lodge keeper ... 962
loader, bridge ... 279	loam mill man ... 183	lodgerman ... 962
loader, cage ... 279	loam mixer ... 183	lodge porter ... 962
loader, canal boat ... 743	loam moulder ... 180	lodging house keeper ... 912
loader (cargo) ... 743	loam wheeler ... 180	loft dryman (board making) ... 519
loader, carrier's van ... 729	loam wheeler (general labourer) ... 976	loft dryman (hand-made paper) ... 518
loader, cartage ... 729	loan officer keeper ... 747	loft (salt) ... 098
loader, cart (colliery) ... 049	lobber (card and pasteboard) ... 519	loft band ... 380
loader, cartage (warehouse, wharf, &c.) ... 729	lobby boy ... 917	loft man (flag and hemp) ... 390
loader, cattle ... 706	lobby keeper ... 921	loftman (grain milling) ... 449
loader, cement ... 099	lobby man (gasworks) ... 925	loftman (lines) ... 359
loader (cement, slag, &c.) ... 099	lobby man (hotel, &c.) ... 917	loftman, rock salt ... 078
loader, check ... 706	lobster fisherman ... 090	loft man, yarn ... 380
loader, checker ... 706	lock attendant ... 741	loftman, assistant ... 668
loader (chemical works) ... 149	lock, castor, brass (moulder) ... 180	loftman and scriever ... 668
loader, check (coal mine—above ground) ... 049	locker (felt hats) ... 338	loft band sawyer ... 481
loader, check (coal mine—below ground) ... 047	locker, flat ... 396	loft peeler (match boxes) ... 466
loader (clay, gravel, &c.) ... 074	locker, lamp ... 047	logwood cutter ... 148
loader, coal (coke works) ... 069	locker (theft) ... 279	logwood grinder ... 148
loader, coal (ship) ... 743	lockers (bush and grain) ... 419	logwood miller ... 148
loader, coke (coke works) ... 069	lockers ... 419	logwood turner ... 148
loader, coke (gas works) ... 069	lockers-up ... 043	long liner ... 000
loader, coke oven ... 069	lockerman ... 043	longshore fisherman ... 000
loader (colliery) ... 042	locket maker (gold and silver) ... 284	long side minder (silk) ... 396
loader (copper) ... 171	lock foreman (docks) ... 740	long wood drawer ... 353
loader, cokehouse ... 743	lock freer (gun) ... 238	looker (cloth) ... 379
loader (on the seaward, fireclay, &c.) ... 119	lock freeer, gun ... 239	looker, cloth ... 379
loader, fence ... 577	lock gate keeper ... 741	looker (clothing trades) ... 401
loader (finishing) ... 399	locking fitter (railway signal) ... 210	looker, cut ... 379
loader, fish ... 745	locking inspector (railway) ... 700	looker (finishing) ... 379
loader (floor construction) ... 449	lock inspector, canal ... 731	looker, glass ... 138
loader, foramin horse ... 706	lock keeper ... 741	looker (glassworks) ... 138
loader, grain miller ... 449	lock maker, automatic ... 243	looker (grey cloth) ... 379
loader, hoist ... 279	lock maker, brass edge ... 243	looker (hosiery) ... 379
loader, horse ... 706	lock maker, brass case ... 243	looker (in charge of sheep) ... 022
loader, ironstone ... 279	lock maker, chased ... 243	looker, marsh (in charge of cattle) ... 022
loader, kiln (cement) ... 092	lock maker, carpet bag ... 243	looker, marsh (in charge of sheep) ... 029
loader, kiln (lime burning) ... 092	lock maker, combination ... 243	looker, piece (cloth) ... 379
loader, leading ballast ... 581	lock maker, dead ... 243	looker, piece (fustian, velvet, &c.) ... 379
loader (leather finishing) ... 339	lock maker, detector ... 243	looker, piece (grey cloth) ... 379
loader, lift ... 279	lock maker, drawback ... 243	looker (tin boxes) ... 278
loader, lump ... 082	lock maker, earthquake ... 243	looker, yarn ... 379
loader (metal) ... 279	lock maker, flush ... 243	looker-over (boots) ... 414
loader, metal ... 279	lock maker, gun ... 239	looker-over, celluloid ... 818
loader (metal mine) ... 054	lock maker, gun ... 239	looker-over (cloth) ... 379
loader, mine (blast furnace) ... 279	lock maker, hatch ... 243	looker-over (galvanized sheet) ... 278
loader, mine (iron ore mine) ... 054	lock maker, lathe ... 243	looker-over (handkerchiefs) ... 401
loader, motor wagon ... 706	lock maker, lathe ... 243	looker-over, ivory ... 618
loader, oven ... 089	lock maker, lever ... 243	looker-over (piano keys) ... 618
loader (paper mill) ... 519	lock maker, machine made ... 243	looker-over, piece ... 379
loader, plane house ... 389	lock maker, mortice ... 243	looker-over (pottery) ... 118
loader, plate and scrap ... 279	lock maker, permutation ... 243	looker-over (steel pens) ... 380
loader, rail ... 279	lock maker, railway carriage ... 243	looker-over, wool ... 380
loader (railway) ... 706	lock maker, safe ... 243	looker-over (wool sorting) ... 380
loader (rock salt, &c.) ... 076	lock maker, spring ... 243	looker-to-ware ... 110
loader, rough ... 072	lock maker, stock ... 243	looker-up (boot and shoe) ... 949
loader, rough slag ... 069	lockman (bush) ... 049	looking glass frame maker ... 473
loader, round timber ... 706	lock man (water transport) ... 741	look-out man ... 577
loader, salt ... 099	lock maker, hammer ... 741	loom alterer ... 398
loader, slag ... 279	lock plate ... 741	
loader (slate mine or quarry) ... 073	lockshopman ... 047	
loader, stone (quarry) ... 743	locksmith ... 243	
loader (stone mine or quarry) ... 042	locksmith, brash ... 243	
loader, swift (wire works) ... 072	locksmith, cabinet ... 243	
loader, timber (colliery) ... 049	locksmith, gun ... 299	
loader, timber (for saw-mill) ... 499	locksmith, machine ... 243	
loader, timber (metal mine) ... 054	locksmith, mortice latch ... 243	
	locksmith, plate ... 243	

	Code Number.		Code Number.		Code Number.
loom attendant ...	399	lohrstrider (textile machinery)	399	machine attendant, cigarette	349
loom builder ...	210	loft ladder ...	414	packing ...	254
loom builder, elastic ...	399	loft brusher ...	210	machine attendant, circular ...	279
loom cleaner ...	399	luggage attendant, left ...	706	machine attendant, cleaning ...	363
loom erector ...	399	luggage attendant, left ...	706	machine attendant, combing ...	435
loomer ...	399	luggage carrier ...	759	machine attendant, covering ...	384
loomer, warp ...	366	luggage clerk, excess (rail-	399	machine attendant, crepeing ...	279
loomer-and-twister ...	399	way) ...	399	machine attendant, cutting	279
loom filter ...	399	luggage clerk, left ...	706	(general engineering) ...	279
loom gaiter ...	399	luggage foreman ...	706	machine attendant, drilling ...	279
loom machine operator ...	399	luggage foreman, excess ...	706	machine attendant, dusting ...	639
loom master ...	399	luggage inspector, travelling ...	706	machine attendant, embossing ...	949
loom jobber ...	399	luggage labeller ...	706	machine attendant, filling ...	381
loom power ...	474	luggage labeller, excess ...	706	machine attendant, gaging ...	999
loom knitter, warp (arti-	379	luggage loader and stower ...	706	machine attendant, grinding ...	499
trial silk) ...	379	luggage maker (bombona) ...	684	machine attendant, growing ...	302
loom knitter, warp (cloth) ...	399	luggage man, excess ...	706	machine attendant, hatching ...	361
loom machine ...	399	luggage porter ...	706	machine attendant, mixing	099
loom moulder ...	399	luggage porter (railway) ...	706	machine attendant, moulding	449
loom oiler ...	399	luggage room porter ...	706	(margarine manufacture) ...	439
loom overlooker, assistant	399	luggage searcher ...	706	machine attendant, nailing ...	439
power ...	399	luggage weigher ...	706	machine attendant, peeling ...	279
loom overlooker, power	399	luggage weigher, district ex-	706	machine attendant, plate	290
loom overlooker (weaving)	399	cess ...	706	machine attendant, plate	179
loom pigger ...	399	luggage weight, excess ...	706	machine attendant (Port of	970
loom supervisor ...	164-168	lunger ...	072	London) ...	970
loom sweeper ...	399	luggorman (chilled stores) ...	759	machine attendant (pressing	254
loom tacker ...	399	lug trimmer ...	319	or stamping) ...	530
loom tender ...	370	lunger, charcoal ...	172	machine attendant (printing	279
loom tenter, net ...	399	lunger, coal ...	745	works) ...	530
loom tenter, power ...	370	lunger (dock) ...	745	machine attendant, punching	279
loom tenter (weaver) ...	370	lunger, fish ...	745	(forging) ...	021
loom tuner ...	399	lunger, foreman ...	745	machine attendant, reaping ...	489
loom tuser, power ...	399	lunger (metal yardman) ...	279	machine attendant, refining	489
loom turner ...	399	lunger (nets) ...	319	(chocolate) ...	209
loom weaver ...	370	lunger loader ...	099	machine attendant, rounding	159
loom weaver, automatic ...	370	lump maker (clay) ...	112	machine attendant, shaft	237
loom weaver, box ...	370	lump maker, felt ...	099	grinding ...	279
loom weaver, hand ...	370	lump maker, silica ...	112	machine attendant, shearing	469
loom weaver, harness ...	370	lumpman ...	099	machine attendant, skillets ...	489
loom weaver, power ...	370	lump picker ...	099	machine attendant, slide	489
loom worker, alabar ...	406	luncheon bar keeper ...	911	(match boxes) ...	602
looper (corsets) ...	279	lurer ...	410	machine attendant, spout ...	639
looper, hand ...	279	lurer-off ...	410	machine attendant, spreading	158
looper (handband making) ...	279	lurrier ...	399	machine attendant, stamping	489
looper (pinns) ...	279	lurrier-off ...	410	machine attendant, tapping ...	200
looper, umbrella ...	429	lurrier ...	399	machine attendant (tea pack-	949
looper (wood) ...	365	lurrier boy ...	719	ing) ...	279
looperman (serial rope) ...	374	lurrier man (horse driver) ...	399	machine attendant, test hose	916
loop wheel machine hand ...	374	lurrierman (textile mill) ...	719	(laundry) ...	399
loop wheel machine worker ...	374	lurrier nipper ...	725	machine barrel driver ...	496
loop wheel worker ...	374	lurrier (silk) ...	354	machine belt man ...	343
loop worker ...	374	lurrier maker ...	125	machine binder (cork hats) ...	419
looseman ...	624	lurrier maker, lamp ...	125	machine blacker ...	279
loose nailer (books) ...	429	lurrier moulder ...	125	machine block (hats) ...	190
looseener (heads) ...	399	lurrier wooder (silk) ...	367	machine borer (brush, broom)	688
loose-off (coal mine) ...	399	lurrier (cork oven) ...	089	machine borer (stone mine	072
loose-off (textiles) ...	399	lurrier (fuses, plugs) ...	145	or quartz) ...	633
lorry boy ...	723	lurrier worker ...	074	machine borers' plate filler ...	125
lorry (lorry) driver (horse) ...	719	lurrier (rock salt) ...	074	machine boy, but ...	399
lorry driver (motor) ...	729	lurrier (soft toys) ...	683	machine boy, coal cutting ...	399
lorry driver, motor ...	729	lurrier maker (piano) ...	473	machine boy (flax, hemp) ...	519
lorry driver, motor steam ...	729			machine boy (paper making) ...	519
lorry driver, petrol ...	721			machine boy (printing works) ...	399
lorry driver, steam ...	721			machine boy (rope, twine) ...	399
lorry man ...	719			machine boy (tumble works) ...	279
lorry nipper ...	723			machine braider, hand ...	399
lorry washer ...	729			machine braider, power ...	399
lost luggage attendant ...	706			machine braider, semi-power	132
lost luggage porter ...	706			machine brick maker ...	633
lost property clerk ...	539			machine brush hand ...	633
lost property office attendant	706			machine brush stapler ...	633
lost property office attendant,	706			machine caulker ...	279
leading ...	706			machine chipper man ...	279
lost property office porter ...	706			machine chisel (colliery) ...	939
lotter ...	745			machine clipper man ...	279
lottery foreman ...	740			machine cutter (bookbinder's)	403
lowerer, belt (blast furnace)	279			machine cutter (clothing) ...	642
lowerer, belt ...	347			machine cutter (coal mine)	548
lowerer, fib ...	347			machine cutter (printer's)	358
lowerer, tug ...	643			machine cutter (frame, &c.)	358
lowerer-in ...	704			machine attendant, cigarette	466
low side moulder ...	344				
lozenge cutter, medicated	148				
lozenge cutter (sugar confec-	435				
tionery) ...	435				
lozenge finisher ...	435				
lozenge hand ...	435				
lozenge machine breaker ...	435				
lozenge machine hand ...	435				
lozenge maker ...	435				
lozenge paste mixer ...	435				
lozenge pocker ...	435				
lozenge pinner ...	435				
lozenge sifter ...	435				
lozenge spreader ...	435				
lubricating grease boiler	159				
lubricator (gun making)	279				

	Code Number.		Code Number.		Code Number.
machine cutter-out	532	machine hand, Belgian	409	machine man (asbestos)	512
machine cutter's assistant	042	machine hand, bristle dress-		machinists, bearing (soap)	159
machine drawing hand	633	ing	639	machine man, bearding (ash	
machine dresser	353	machine hand, circular fabric	374	hooks)	278
machina driller (coal mine)	047	machine hand, circular web	374	machine man, black dyehouse	399
machine driller (electric,		machine hand, cutting (paper	518	machine man, bolt heading	278
pneumatic)	231	making)		machine man, bowing	278
machine driller (metal mine)	054	machine hand, cutting (paper	519	machine man (brickworks)	119
machine driller (metal trades)	200	making-labourer)		machine man, brushing	519
machine driller, vertical	209	machine hand, cutting (sugar	435	machine man, butcher's	448
machine drillman	054	confectionery)		machine man (butcher's small	
machine driver, cable	316	machine hand, drying (soap)	138	goods)	448
machine driver, charging	693	machine hand, envelope	553	machine man, centrifugal	449
machine driver, forcing	602	machine hand, fibre dressing	639	machineman, coach spring	195
machine driver (gas works)	603	machine hand, finishing	638	machine man, coal cutting	042
machine driver, spreading	319	machine hand (gunpowder)	146	machineman (coal mine)	042
machine driver, tinning	253	machine hand (hair)	362	machine man (coke oven)	038
machine embroiderer (dress)	467	machine hand, hopper	352	machine man (colliery clerk)	503
machine embroiderer (lace)	376	machine hand, knot picking	099	machine man, colour dyehouse	359
machine engraver (mathematical instruments)	322	machine hand (lead pencil)	636	machine man, crushing	042
machine engraver (silver or		machine hand (leather dress-	338	machine man, cutter	042
plate)	283	ing)		machine man, cutting (paper	
machine engraver (textile		machine hand, huzisco	435	making)	518
printing)	257	machine hand, loop wheel	374	machine man, cutting (paper	
machine erector (metal)	219	machine hand, lounge	435	making-labourer)	519
machine erector (wood)	474	machine hand, mauling	496	machine man, damping	384
machine feeder, automatic	279	machine hand (mould)	448	machine man, drilling	054
machine feeder (automatic		machine hand, opening	352	machine man, drying	399
woodworking machinery)	436	machine hand (paper pat-		machine man, dumping	389
machine feeder (boot making)	414	terns)		machine man (dye house)	399
machine feeder, bronzing	538	machine hand (paper stain-	549	machine man, dressing	389
machine feeder, cigarette	469	ing)		machineman, edge tool	703
machine feeder (cotton blocking		machine hand, perpetual	334	machine man (fertiliser)	146
and scutching)	362	machine hand (printer's)	530	machine man (floor or grain	
machine feeder, Crichton		machine hand, rod (eroid)	518	mill)	432
opport	362	machine hand, rotary cutting	279	machineman (gas works)	693
machine feeder, drying	468	machine hand, safety pin	254	machine man, gold	262
machine feeder, folding	549	machine hand, sand paper	495	machine man, grinding	519
machine feeder, gumming	559	machine hand, seamless	374	machine man (grist mill)	432
machine feeder, lacquering	549	machine hand (seed crushing)	159	machine man, hacking	359
machine feeder, lithographic	530	machine hand, spindle	486	machine man, heading	278
machine feeder, nail	279	machine hand (stamped or		machine man, heeling roll	624
machine feeder (nails)	279	pressed metal)	254	machine man, leather	334
machine feeder, opener (cotton)	362	machine hand, starch (curets)	435	machine man (leather dress-	
machine feeder (printer's)	530	machine hand, tapping	279	ing)	338
machine feeder, printing		machine hand, tubing	602	machine man, linen	518
(leather)	335	machine hand (wood)	486	machine man, lithographic	529
machine feeder, raling	530	machine heel attacher	414	machine man, metal boarding	486
machine feeder, splitting	338	machine beller	414	machineman (metal mine)	054
machine feeder, storing	468	machine helper	519	machine man (metal)	200
machine feeder, stretching	384	machine brazier	419	machineman, melling	230
machine feeder, tin printing	530	machine inspector, adding	267	machine man (paper coating)	512
machine feeder, tobacco		machine inspector (railway)	700	machine man, paper tube	551
cutting	469	machine inspector, weighing	700	machinemas, plodding	159
machine feeder, varnishing	549	machine joiner	486	machineman, presse pâte	512
(tubs)		machine knife and section	190	machine man, printing	383
machine feeder, varnishing	599	wager		machineman, pug mill	564
(tinplates)		machine knife cutter	403	machine man, ratchet	654
machine feeder (wool card-	363	machine knife cutter-out	278	machine man, right heading	273
ing)		machine knife driller	230	machine man, rope	379
machine feeder, zinc nail	279	machine knife emery grinder	207	machine man, rough	379
machine feeder-on (cotton		machine knife fitter	210	machine man, scarping	290
blowing and scutching)	362	machine knife feger	396	machine man, scouring (wool)	380
machine felder (silk weaving)	356	machine knife roller	200	machine man, screwing	200
machine filler (brush-making)	633	machine knife planer	200	machineman (seed crushing)	159
machine filler, punching	639	machine knife puncher (blank		machine man, shipping	200
machine fitter	210	stamping)	254	machine man, sizing	369
machine fitter, agricultural	210	machine knife puncher (hole		machineman, slaking (soap)	159
machine fitter, automatic	211	punching)	279	machine man, sliding	200
machine fitter, chocolate	210	machine knife slotter	190	machine man, sitting	518
machine fitter, engine shop	210	machine knife smith	190	machine man, slotting	200
machine fitter, spring dial		machine knife smith, agricul-		machinemas, spare	119
weighing	260	tural	190	machine man, split lift	513
machine fitter, weighing	269	machine knife smith	190	machine man, stone	575
machine fisher	338	machine knitter	374	machine man, sugar refining	449
machine flyer	530	machine knitter, stocking	374	machine man, sweeping	989
machine forger	190	machine knitter	374	machine man, test house	276
machine forger, bolt	190	machine knitter	374	machine man (textile loom)	398
machine frame maker	474	machine knitter	374	machineman, traffic	048
machine girl (matrices)	148	machine knitter	374	machineman, upsetting	190
machine girl, mist	149	machine knitter	374	machine man, velvet	390
machine glass bottle blower	225	machine knitter	374	machine man, washing (textile	
machine glass bottle moulder	125	machine knitter	374	bleaching)	380
machine grinder (celluloid)	619	machine knitter	374	machine man, washing (textile	
machine grinder (celluloid)	619	machine knitter	374	finishing)	354
machine grinder (metal		machine knitter	374	machine man, washing-off	380
trades)	237	machine knitter	374	machine man (weigher)	048
machine grinder, Slack's	237	machine knitter	374	machine man, weighing (coal)	048
machine gun maker	238	machine knitter	374	machine man, weighing (metal	
machine gun maker, Lewis	219	machine knitter	374	trades)	279
machine hatcher	352	machine knitter	374	machineman, wood	518
machine head, automatic	279	machine knitter	374	machineman, wood pulp	518
machine head (automatic or		machine knitter	374	machine man in crew	380
semi-automatic)	279	machine knitter	374	machine man's assistant	519
machine hand, automatic		machine knitter	374	machine mason	572
screw	279	machine knitter	374	machine master	359
machine hand, automatic		machine knitter	374		
seamless	374	machine knitter	374		

Ma

	Code Number.		Code Number.		Code Number.
machine mechanic, adding ...	257	machine minder, patent	362	machine operator, garnet ...	362
machine mechanic, sewing ...	245	dressing ...	362	machine operator, grooming ...	414
machine minder, ageing ...	386	machine minder, pearl barley	433	machine operator, Keats ...	414
machine minder, assistant vul-		machine minder, pegging	384	machine operator, lacing ...	556
caned fibre ...	556	machine minder, perforating		machine operator, lusting ...	414
machine minder, automatic	279	(music rolls) ...	456	machine operator, looming ...	366
machine minder (automatic		machine minder (piano action)	552	machine operator (machine	
or semi-automatic) ...	278	machine minder (pump)	279	loom) ...	200
machine minder (automatic		machine minder, plating ...	529	machine operator, Mackay ...	414
woodworking machinery)	486	machine minder, platen		machine operator, M.S. ...	414
machine minder, ball ...	363	machine minder, preparing		machine operator (music rolls)	552
machine minder, balling		(silk) ...	363	machine operator, paper cap	556
(finishing) ...	398	machine minder (pressing or		machine operator, paper plant-	
machine minder, balling (wool		stamping) ...	254	ing ...	556
combing) ...	363	machine minder, pressing		machine operator, plunger ...	552
machine minder, beaming ...	367	(textile) ...	384	machine operator (press or	
machine minder (beacut)	433	machine minder, printing ...	529	stamp) ...	254
machine minder, biscuit ...	433	machine minder (printing		machine operator, pressure ...	414
machine minder, bobbin ...	367	works) ...	529	machine operator (printer) ...	530
machine minder, braiding ...	388	machine minder, printing ...	388	machine operator, sanding	
machine minder (brackworks)	119	(pottery) ...	108	(sewing machines) ...	238
machine minder, breaking ...	538	machine minder, process ...	529	machine operator, steaming	254
machine minder, brushing ...	384	machine minder, raising ...	384	machine operator, steel nail-	
machine minder, cable ...	318	machine minder, rivet ...	279	ing ...	414
machine minder (cardboard		machine minder, rotary ...	529	machine operator, setting ...	334
boxes) ...	245	machine minder, ruling ...	533	machine operator, sewing ...	414
machine minder, carbon paper	556	machine minder, seamless	574	machine operator, sew round	414
machine minder, card setting	223	machine minder, stang	367	machine operator, skiver ...	414
machine minder, checking ...	380	machine minder, skinning ...	367	machine operator, slugger ...	414
machine minder, cloth cutting	384	machine minder, soaping ...	386	machine operator, slugging ...	414
machine minder, combing ...	363	machine minder, soldering ...	282	machine operator, sole level-	
machine minder, cylinder		machine minder, soaring ...	380	ing ...	429
drying ...	398	machine minder, spreader		machine operator, sole sewing	414
machine minder, cylinder		(flax, hemp) ...	363	machine operator, staking ...	384
(printing works) ...	529	machine minder, squeezing		machine operator, stitching	414
machine minder, damping ...	384	(bleaching) ...	360	machine operator, Stringer	
machine minder, decatir ...	384	machine minder, squeezing		type ...	523
machine minder, decatizing ...	384	(dyeing) ...	389	machine operator, taping	
machine minder, decorticating		machine minder, stentering ...	399	(boots) ...	414
(pepper) ...	448	machine minder, stiffening ...	384	machine operator, top iron	
machine minder (developing)	527	machine minder, stretching ...	384	(boots) ...	414
machine minder, developing		machine minder, tentering ...	384	machine operator, top piece	
(textile printing) ...	398	machine minder, tin plate ...	529	head ...	414
machine minder, doubling ...	385	machine minder, twisting ...	366	machine operator, wall ...	414
machine minder (dough) ...	433	machine minder, typewriting		machine operator, wood plan-	
machine minder, dough ...	433	ribbon ...	558	ing ...	486
machine minder, drawing ...	363	machine minder, varnishing ...	546	machine overseer (teleprinter)	521
machine minder, drum (silk)	356	machine minder, vulcanized		machine picker, tobacco ...	469
machine minder, drying ...	398	fibre ...	558	machine presser ...	532
machine minder, drying		machine minder, warping ...	367	machine presser (cloth) ...	384
(finishing) ...	394	machine minder, washing		machine presser (iron hollow-	
machine minder, dunging ...	396	(bleaching) ...	380	ware) ...	254
machine minder (dry house)		machine minder, washing		machine presser (tailor's) ...	404
machine minder, electric roller	176	(finishing) ...	384	machine printer, cotype ...	529
machine minder (film printing)	527	machine minder, washing-off	384	machine printer (paper stain-	
machine minder, finisher ...	362	machine minder, willow ...	382	ing) ...	536
machine minder, flat dressing	363	machine minder, winding ...	367	machine printer, photo-	
machine minder (floor or grain		machine minder, winnowing		graphy ...	529
mill) ...	432	(coats) ...	446	machine printer (textile	
machine minder, folding		machine minder (wool card-		printing) ...	383
(printing works) ...	546	ing) ...	363	machine, action ...	200
machine minder, folding		machine minder, zinc nail ...	254	machine, barrel ...	200
(textile making-up) ...	943	machine minder, zincographic	329	machine (machine tool	
machine minder, folding		machine minder's assistant		weaker) ...	200
(textile mill) ...	396	(grain milling) ...	449	machine (shale mine or	
machine minder, gapping ...	380	machine moulder ...	180	quarry) ...	673
machine minder, gilling (silk)	363	machine moulder ...	489	machine, tailor's ...	244
machine minder, goods (rope,		machine needle maker ...	278	machine repairer, automatic	244
twine) ...	362	machine net maker ...	672	machine repairer, sewing ...	244
machine minder, grinding		machine oiler ...	362	machine repairer, weighing ...	260
(coats) ...	448	machine operator, adding	839	machine reviser ...	548
machine minder (grist mill) ...	432	machine operator, Amasen		machine rider ...	043
machine minder, hydro-ex-		skiver ...	414	machine riveter ...	255
tracting ...	396	machine operator, automatic	279	machine ruler ...	533
machine minder, inter-		machine operator, auto screw	278	machine ruler feeder ...	530
mediate ...	363	machine operator, bagging ...	414	machine ruler layer-on ...	530
machine minder, lap ...	362	machine operator, band saw	414	machine ruler assistant ...	530
machine minder, letterpress ...	529	machine operator, baryta		machine runner ...	139
machine minder, lining ...	380	mixing ...	519	machinery dismantler ...	279
machine minder, lithograph	329	machine operator, Blake	414	machinery erector, agricul-	
machine minder, melanger ...	383	machine operator, boarding	339	tural ...	210
machine minder, mixing		machine operator, boot ...	414	machinery erector, printing ...	210
(biscuits) ...	433	machine operator (boot mak-		ing) ...	210
machine minder, mixing		ing) ...	414	machinery erector, well ...	210
(bread) ...	433	machine operator, bottle cap	559	machinery filter, boot ...	210
machine minder, mixing (puff		machine operator, bottle mix-		machinery filter, hydraulic ...	210
paste) ...	433	ing ...	639	machinery filter, preparing ...	210
machine minder, Moser ...	384	machine operator, brush	429	machinery filter, printing ...	210
machine minder, moulding ...	433	machine operator, Camp-ell	414	machinery filter, tobacco ...	210
machine minder (moss rolls)	552	machine operator, case-making	532	machinery filter, wire rope ...	210
machine minder (nails)	278	machine operator, chain mesh	284	machinery inspector (colliery)	041
machine minder, nail (ground)	278	machine operator, cigarette	468	machinery inspector, outside	700
machine minder, nail (stamped		machine operator, crinkled		machinery inspector (rail-	
nails) ...	254	paper ...	559	way) ...	399
machine minder, padding ...	381	machine operator, Cyclopedia	414	machinery sizer ...	433
machine minder (paper		machine operator, dierating	278	machinery scale brush maker ...	338
making) ...	519	machine operator, fleshing	338	machine setter ...	211
		machine operator, folding ...	549	machine setter, automatic ...	211
		machine operator, Fortuna ...	414		

Code Number.		Code Number.		Code Number.	
machine setter (cardboard boxes) ...	551	machine worker, screwing ...	290	machinist, embroidery ...	407
machine setter, heading ...	278	machine worker, shearing ...	279	machinist, ending (bolts) ...	279
machine setter, printing ...	529	machine worker, staying ...	278	machinist, engraver's ...	237
machine sewer (gloves) ...	419	machine worker, swaging ...	190	machinist, eyelet (paper, card)	549
machine sewer (straw hats) ...	378	machine worker, wire armour leg ...	318	machinist, eyelet (paper)	549
machine shaver ...	419	machinist, anatomical ...	583	machinist, face ...	559
machine shop labourer ...	239	machinist, automatic ...	279	machinist, feather ...	608
machine smith ...	190	machinist (automatic or semi- automatic) ...	279	machinist, filter (celluloid) ...	618
machine smith, weighing ...	190	machinist (automatic wood- working machinery) ...	496	machinist, finery ...	918
machine sprayer ...	592	machinist, axle box ...	290	machinist, fitter's ...	200
machine stamper (paper stamping) ...	552	machinist, bags, trunks ...	345	machinist, five needle ...	404
machine stamper (trade mark) ...	949	machinist, bag (leather) ...	345	machinist, flag ...	419
machine tackler (paper bags)	551	machinist, bag (textile) ...	417	machinist, flanging ...	190
machine tackler, paper tube	551	machinist, ball bearings ...	290	machinist, flour or grain mill	432
machine taker-off ...	530	machinist, bamboo ...	431	machinist, folding ...	466
machine taker-off, litho- graphic ...	530	machinist, bayonet socket	290	machinist, foot ...	419
machine tender (automatic or semi-automatic) ...	496	machinist, biscuit ...	433	machinist, front ...	419
machine tender (automatic woodworking machinery) ...	496	machinist, blouse ...	419	machinist, fur ...	332
machine tender, block ...	509	machinist, belt ...	279	machinist, gear ...	397
machine tender (press) ...	279	machinist, bonnet ...	407	machinist, gear cutting ...	200
machine tender, rivets ...	279	machinist, boot (shoe) ...	414	machinist, George (hosiery)	374
machine tender, beveling ...	384	machinist, boring (metal) ...	200	machinist, glove ...	411
machine tender, braiding (cables) ...	319	machinist, boring (metal mine) ...	054	machinist, gloves ...	411
machine tender (card cloth- ing) ...	225	machinist, boring (wood) ...	486	machinist, gold (hosiery) ...	374
machine tender, cutting ...	304	machinist, bottle ...	125	machinist, gold ...	419
machine tender, finisher ...	362	machinist, box ...	410	machinist, grenade ...	279
machine tender, flannelette racing ...	384	machinist, box making ...	486	machinist, gun ...	200
machine tender, fustian pegging ...	384	machinist, brass ...	224	machinist, hair cord ...	407
machine tender, lace ...	376	machinist, brass buffing ...	238	machinist, hair pin ...	279
machine tender, lap ...	362	machinist, brick ...	182	machinist, hand (hosiery and brakes) ...	628
machine tender, Moser ...	394	machinist, bridle ...	344	machinist, hand (metal trades)	299
machine tender, padding ...	381	machinist, drum sounding ...	409	machinist, hand (sewer) ...	419
machine tender (paper mill) ...	519	machinist, bracing ...	210	machinist, handle ...	436
machine tender, raising ...	384	machinist, brush boring ...	688	machinist, handle ...	410
machine tender, singeing ...	396	machinist, brush drilling ...	588	machinist, hawl ...	397
machine tender, retreat pegging ...	384	machinist, buffing ...	436	machinist, head ...	397
machine tool fitter ...	210	machinist, bulder's ...	279	machinist, head ...	397
machine tool maker ...	265	machinist, bullet ...	279	machinist, hemming ...	419
machine tool setter ...	211	machinist, button hole ...	419	machinist, hole cutting ...	486
machine tool turner ...	290	machinist, cabinet ...	486	machinist, horse clothing ...	419
machine troweller ...	639	machinist, cable ...	319	machinist, horse collar ...	344
machine tucker ...	419	machinist, camb (casing) ...	387	machinist, horse rug and blanket ...	419
machine turner-up ...	409	machinist, canister making ...	254	machinist, hosiery ...	374
machine turner ...	467	machinist, cap ...	410	machinist (hosiery frame) ...	374
machine warper ...	319	machinist, capping (eyephones)	279	machinist, india rubber ...	419
machine weaver, hand (fish- ing nets) ...	389	machinist, capsule making ...	254	machinist, ink (small arms)	278
machine weaver, power (fish- ing nets) ...	389	machinist, carpet ...	419	machinist, pegging ...	200
machine weaver, semi-power ...	389	machinist, carriage (textile) ...	200	machinist, joiner ...	486
machine weigher (colliery) ...	043	machinist, celluloid ...	618	machinist, joiner's ...	486
machine weigher, tobacco ...	469	machinist, children's costume	419	machinist, knicker ...	404
machine winder (electric cable, wire etc.) ...	319	machinist, cigar ...	486	machinist, knitting ...	374
machine winder, golf ball ...	608	machinist, clocking ...	609	machinist, knot pecking ...	538
machine worker, armouring (cables) ...	318	machinist, clock ...	415	machinist (laundry) ...	918
machine worker, bolt ...	279	machinist, clogs ...	415	machinist, leather ...	348
machine worker, boring ...	290	machinist, cloth ...	419	machinist, leather dressing ...	338
machine worker, buffing ...	238	machinist, cloth drying ...	396	machinist (leather goods) ...	348
machine worker, centering ...	290	machinist, cloth drying (finish- ing) ...	384	machinist, Lunderman ...	486
machine worker, copying (lick) ...	939	machinist, cloth hat ...	410	machinist, lining ...	410
machine worker, copying milling machinery ...	200	machinist (clothing, &c.)	419	machinist (machin tool worker) ...	200
machine worker, cutting (engineering) ...	279	machinist (coal miner) ...	042	machinist, manhole ...	200
machine worker, drilling ...	290	machinist, coat ...	404	machinist, manhole cutting ...	200
machine worker, engraving ...	278	machinist, collar (laundry) ...	918	machinist, mantle (sewer) ...	404
machine worker (fishing rods)	588	machinist, collar (leather) ...	344	machinist, mantle (tailor's)	404
machine worker, fraying ...	279	machinist, concealed stitch	410	machinist, mask bearding ...	486
machine worker, glazing ...	338	machinist, concrete ...	581	machinist (mashes) ...	143
machine worker, hand knitting ...	375	machinist (cooper's) ...	496	machinist, metal ...	200
machine worker, knitting ...	374	machinist, cooper's ...	496	machinist, metal window ...	200
machine worker, loop wheel ...	374	machinist, core cutting ...	279	machinist (milk factory) ...	448
machine worker, malling ...	290	machinist, cork (cutting) ...	638	machinist, mill ...	436
machine worker, notching (rolling mill) ...	279	machinist, cornelling ...	407	machinist, millinery ...	419
machine worker, planing ...	290	machinist, cornelly ...	407	machinist, miling ...	200
machine worker, profiling ...	290	machinist, corset ...	404	machinist, mixing (bacon) ...	433
machine worker, punching (brush-making) ...	639	machinist, cramping-up ...	486	machinist, mowing ...	486
machine worker, patching (forging, shipbuilding) ...	279	machinist, crane-maker's ...	486	machinist, nailing ...	499
machine worker (sack or bag)	417	machinist, cuff ...	419	machinist, nailing ...	499
machine worker, sawing ...	279	machinist, cutting (faser cases) ...	559	machinist, sewing ...	200
machine worker, sculpting ...	206	machinist, cutting (tyres) ...	609	machinist, numbering (book- binder's) ...	549
		machinist, cycle ...	200	machinist, oilskin ...	486
		machinist, die sinker's ...	230	machinist, outside box (match boxes) ...	419
		machinist, die stripping ...	193	machinist, outside stitch ...	410
		machinist, door dressing ...	486	machinist, overhead ...	417
		machinist, dope (soup, duped)	397	machinist, overlook ...	419
		machinist, dovetailing ...	486	machinist, overlooking ...	376
		machinist, d'osley ...	419	machinist, padding ...	536
		machinist, dried milk ...	448	machinist (piano action) ...	486
		machinist, drilling ...	200	machinist, piano action wood working ...	486
		machinist, drying ...	398		
		machinist, duchesse set ...	419		
		machinist, embossing ...	485		

	Code Number.		Code Number.		Code Number.
machinist (piano hammers) ...	486	machinist, pen ...	279	machinist, press cutting ...	407
machinist, planing (celluloid) ...	616	machinist, planing (wood) ...	486	machinist, plate planer ...	200
machinist, plunging (meat preserving) ...	448	machinist, power ...	419	machinist, press cloth ...	419
machinist, printer's ...	530	machinist, printing ...	103	machinist, punching ...	278
machinist, quilting ...	419	machinist, raincoat ...	404	machinist, reamering ...	200
machinist, reamering ...	200	machinist, reef making ...	276	machinist, rife ...	200
machinist, riveting ...	255	machinist, roller (celluloid) ...	389	machinist, rubber ...	419
machinist, roller (celluloid) ...	389	machinist, rubber ...	419	machinist, sack ...	417
machinist, rubber ...	419	machinist, sack, bag ...	417	machinist, sand papering ...	493
machinist, sand papering ...	493	machinist, sanitary pipe ...	105	machinist, saw mill ...	486
machinist, saw mill ...	486	machinist, sawyer ...	278	machinist, screwer ...	200
machinist, sawyer ...	278	machinist, screwing ...	200	machinist, sewing (boots) ...	414
machinist, sewing (boots) ...	414	machinist, sewing (clothing, etc.) ...	419	machinist, sewing (hats) ...	419
machinist, sewing (hats) ...	419	machinist, sewing (leather) ...	348	machinist, sewing (umbrella, parasol) ...	416
machinist, sewing (leather) ...	348	machinist, sewing (umbrella, parasol) ...	416	machinist, shaper ...	200
machinist, sewing (umbrella, parasol) ...	416	machinist, shaping ...	486	machinist, shearing ...	278
machinist, shaper ...	200	machinist, shearing ...	278	machinist, shell (ammunition) ...	200
machinist, shaping ...	486	machinist, shell (ammunition) ...	200	machinist, shirt ...	318
machinist, shearing ...	278	machinist, shirt ...	318	machinist, short and collar ...	318
machinist, shell (ammunition) ...	200	machinist, short and collar ...	318	machinist, silk lining ...	414
machinist, shirt ...	318	machinist, silk lining ...	414	machinist, silk ...	319
machinist, short and collar ...	318	machinist, silk ...	319	machinist, silk bag ...	419
machinist, silk lining ...	414	machinist, silk bag ...	419	machinist, skirt ...	404
machinist, silk ...	319	machinist, skirt ...	404	machinist, slate ...	576
machinist, silk bag ...	419	machinist, slate ...	576	machinist, slating (celluloid) ...	618
machinist, skirt ...	404	machinist, slating (celluloid) ...	618	machinist, slipper ...	414
machinist, slate ...	576	machinist, slipper ...	414	machinist, slotter ...	200
machinist, slating (celluloid) ...	618	machinist, slotter ...	200	machinist, socket ...	200
machinist, slipper ...	414	machinist, socket ...	200	machinist, spindle ...	486
machinist, slotter ...	200	machinist, spindle ...	486	machinist, spinning ...	200
machinist, socket ...	200	machinist, spinning ...	200	machinist, spoke ...	419
machinist, spindle ...	486	machinist, spoke ...	419	machinist, stage ...	387
machinist, spinning ...	200	machinist, stage ...	387	machinist, stamped or pressed metal ...	254
machinist, spoke ...	419	machinist, stamped or pressed metal ...	254	machinist, stock (gas) ...	498
machinist, stage ...	387	machinist, stock (gas) ...	498	machinist, stocking (guns) ...	486
machinist, stamped or pressed metal ...	254	machinist, stocking (guns) ...	486	machinist, stocking (hosiery) ...	374
machinist, stock (gas) ...	498	machinist, stocking (hosiery) ...	374	machinist, stone ...	573
machinist, stocking (guns) ...	486	machinist, stone ...	573	machinist, stone dressing, etc. ...	575
machinist, stocking (hosiery) ...	374	machinist, stone dressing, etc. ...	575	machinist (stone mine or quarry) ...	072
machinist, stone ...	573	machinist (stone mine or quarry) ...	072	machinist, surgical hosiery ...	419
machinist, stone dressing, etc. ...	575	machinist, surgical hosiery ...	419	machinist, Swiss lace ...	376
machinist (stone mine or quarry) ...	072	machinist, Swiss lace ...	376	machinist, tailor's ...	404
machinist, surgical hosiery ...	419	machinist, tailor's ...	404	machinist, tambour ...	407
machinist, Swiss lace ...	376	machinist, tambour ...	407	machinist, tapping ...	419
machinist, tailor's ...	404	machinist, tapping ...	419	machinist, tapping A ...	200
machinist, tambour ...	407	machinist, tapping A ...	200	machinist, tanning ...	486
machinist, tapping ...	419	machinist, tanning ...	486	machinist, tent ...	419
machinist, tapping A ...	200	machinist, tent ...	419	machinist, tie ...	419
machinist, tanning ...	486	machinist, tie ...	419	machinist, tin streams ...	618
machinist, tent ...	419	machinist, tin streams ...	618	machinist, trapping ...	518
machinist, tie ...	419	machinist, trapping ...	518	machinist, trouser ...	404
machinist, tin streams ...	618	machinist, trouser ...	404	machinist, tube ...	371
machinist, trapping ...	518	machinist, tube ...	371	machinist, tuck net ...	419
machinist, trouser ...	404	machinist, tuck net ...	419	machinist, tyre wiring ...	605
machinist, tube ...	371	machinist, tyre wiring ...	605	machinist, umbrella, parasol ...	416
machinist, tuck net ...	419	machinist, umbrella, parasol ...	416	machinist, upholsterer's ...	419
machinist, tyre wiring ...	605	machinist, upholsterer's ...	419	machinist, vertical spindle moulding ...	486
machinist, umbrella, parasol ...	416	machinist, vertical spindle moulding ...	486	machinist, vest ...	484
machinist, upholsterer's ...	419	machinist, vest ...	484	machinist, waffer ...	433
machinist, vertical spindle moulding ...	486	machinist, waffer ...	433	machinist, wall paper ...	536
machinist, vest ...	484	machinist, wall paper ...	536	machinist, wiring ...	210
machinist, waffer ...	433	machinist, wiring ...	210	machinist, welding ...	419
machinist, wall paper ...	536	machinist, welding ...	419	machinist, wharfside ...	529
machinist, wiring ...	210	machinist, wharfside ...	529	machinist, wiring (tyres) ...	609
machinist, welding ...	419	machinist, wiring (tyres) ...	609	machinist, wood ...	486
machinist, wharfside ...	529	machinist, wood ...	486	machinist, wood cutting ...	486
machinist, wiring (tyres) ...	609	machinist, wood cutting ...	486	machinist, wood embossing ...	486
machinist, wood ...	486	machinist, wood embossing ...	486	machinist, wood turning ...	486
machinist, wood cutting ...	486	machinist, wood turning ...	486	machinist (wood working) ...	486
machinist, wood embossing ...	486	machinist (wood working) ...	486	machinist, wood working ...	486
machinist, wood turning ...	486	machinist, wood working ...	486	Mackay machine operator ...	414
machinist (wood working) ...	486	Mackay machine operator ...	414		
machinist, wood working ...	486				
Mackay machine operator ...	414				

Code Number.		Code Number.		Code Number.	
malster, foreman	451	manager, theatrical	880	mantle burner-off	888
malster, head	451	manager, theatrical agent's	881	mantle burner-off, incan-	
malster, underhand	452	manager, traffic (canal)	731	descent	888
malster (vinegar)	449	manager, traffic (colliery)	041	mantle burner-off girl (gas)	638
manager, acting	880	manager, traffic (docks)	731	mantle cutter	402
manager, actor	885	manager, traffic (for commer-		mantle dipper	888
manager, advertisement (com-		cial firm)	713	mantle dipper, gas	688
manager, advertisement (new-		manager, traffic (non-metal-		mantle digger	404
spaper)	779	licious mine)	070	mantle machinist (sewing	
manager, advertising	779	manager, traffic (railway)	703	machine)	419
manager, agent's	831	manager, traffic (tramways or		mantle machinist (tailor's)	404
manager, assistant stage	680	omnibus)	710	mantle maintenance fitter	696
manager, band agent's	881	manager, tramway	710	mantle maintenance foreman	692
manager, bank	791	manager, transport	713	mantle maker (gas)	689
manager, basement	914	manager, underground	651	mantle maker, gas	689
manager, bookstall	770	manager, variety agent's	681	mantle maker (not tailored)	405
manager, box office	685	manager, wharf	732	mantle maker (tailor's)	404
manager, branch	791	manageress, assistant (railway		mantle presser	404
manager, buffet	911	catering)	629	mantle seasoner	638
manager, business	880	manageress, buffet	911	mantle seasoner, gas	638
manager, caution	914	manageress (club)	629	mantle seasoner, incandescent	638
manager, coal lade	700	manageress (laundry)	916	mantle sewer	419
manager, certified	940	manageress (lodging)	912	mantle sewer, incandescent	419
manager, chief goods	700	manageress, mail order de-		mantle trimmer	404
manager (club)	629	partment	931	manufacturer's agent	771
manager (coal mine)	040	manageress (railway catering)	629	manuscript reader	543
manager, coal wharf	041	manageress, temperance buffet	911	map and plate placer	528
manager, cold air stores	940	manager of fair, roundabout,		map colourist	528
manager, colliery	840	show, swings, &c.	883	map colourist	528
manager, concert agent's	681	manager of feast	883	map globe maker	688
manager, counting house	931	manager of stud farm	015	map maker, dissected (litho-	
manager, district goods	700	managing clerk (in solicitor's		grapher's)	548
manager, district passenger	700	office)	931	map maker, model	548
manager, district traffic	700	man-and-wife	900	map maker (printer)	529
manager, divisional goods	700	Manchester agent	771	map mounter	543
manager, dock and warehouse		manipole	629	map engraver	574
manager, employment bureau		manipole, college	629	map engraver, monumental	574
manager, estate	795	manipulator	493	map engraver, piece maker	575
manager, fang	041	manipulator	200	map grinder	575
manager, farm	015	manipulator	279	map mason	572
manager, film hiring agent's		manipulator	638	map mason, monumental	572
manager, film studio	862	manipulator	399	map polisher	575
manager (gas, water, electrici-		manipulator	916	map quarrier	672
ty undertaking)	690	manipulator	916	mapster (bookbinder's)	549
manager, general (bank)	791	manipulator	398	mapster, book edge	548
manager, general (coal mine)		manipulator	384	mapster, paper	548
manager, general (gas, water,		manipulator	384	mapster (paper standing)	548
electricity undertaking)	690	manipulator	398	mapster (pottery)	108
manager, general (metal mine)		manipulator	278	map sculptor	574
manager, general (omnibus		manipulator	354	maples man	575
company)	710	manipulator	278	maple turner	575
manager, general (railway)		manipulator	398	maple turner, monumental	575
manager, general traffic	700	manipulator	398	Marconi operator	754
manager, general (tramways)		manipulator	304	Marden belt header	278
manager, goods	700	manipulator	398	margarine maker	449
manager, horse	715	manipulator	380	margarine pecker	449
manager, hotel	914	manipulator	429	margarine poacher	449
manager, hydre	912	manipulator	398	margarine worker	449
manager, kennel	889	manipulator	384	marine coppermith	227
manager, landside (colliery)		manipulator	398	marine engineer (in engineer-	
manager (laundry)	918	manipulator	384	ing works)	244
manager, livery stable	711	manipulator	518	marine engineer (on board	
manager, lodging	912	manipulator	384	ship)	734
manager, machine	389	manipulator	581	marine engineering super-	
manager, market	389	manipulator	271	intendent	739
manager (metal mine)	650	manipulator	388	marine engine fitter	210
manager, news	711	manipulator	384	marine leg attendant	560
manager, mine	070	manipulator	384	marine porter	745
manager, mineral	700	manipulator	384	mariner (fisherman)	060
manager, motor garage	712	manipulator	398	mariner, master	733
manager, motor (non-metallic)		manipulator	278	mariner (river traffic)	738
mine or quarry)	070	manipulator	384	mariner (ship)	735
manager, oven	710	manipulator	398	mariner, Trawl House	735
manager, passenger	700	manipulator	384	marine store dealer	770
manager, posing yard	711	manipulator	384	marine store dealer	770
manager, poultry	639	manipulator	384	marine superintendent (dock)	
manager, press	779	manipulator	398	781	
manager, printing machine	629	manipulator	304	marine superintendent (ship-	
manager, quarry	070	manipulator	486	ping company)	739
manager (racing stables)	888	manipulator	384	marine supervisor (dock)	
manager, railway refreshment		manipulator	170	731	
room	914	manipulator	171	marine surveyor and water	
manager, registry office	771	manipulator	200	boliff	731
manager, risk floor	884	manipulator	200	marine surveyor (dock)	
manager, sack and sheet	700	manipulator	692	731	
manager, safe deposit	940	manipulator	260	marine turner	200
manager, sales	770	manipulator	920	mark boy	279
manager (spa baths)	919	manipulator	358	mark boy, plater's	279
manager, stage	680	manipulator	363	mark cutter	230
manager, steel	278	manipulator	362	mark cutter, stamp	230
manager, stock broker's	792	manipulator	049	marker (bag, bale, box)	849
manager, stock jobber's	792	manipulator	278	marker, bag	849
manager, studio (cinemato-		manipulator	486	marker, bale	849
graph)	882	manipulator	278	marker, basket	499
manager, surface	040	manipulator	278	marker, billet (fate wearing)	388
manager, tank	121	manipulator	921	marker, billiard	899
manager, temperance buffet		manipulator	474	marker (boilermaking and	
911		manipulator	572	sh(p)building)	222
		manipulator	474	marker (boots)	629
		manipulator	572	marker, box	949

	Code Number.		Code Number.		Code Number.
marker (brewery) ...	455	marmalade boiler ...	436	master, hack ...	711
marker, oak (brewery) ...	459	marmalade maker ...	436	master, harbour ...	731
marker, oak (cement, etc.) ...	499	marquee erector ...	989	master, hives ...	731
marker (slag iron) ...	279	marquee fixer ...	989	master (hospital) ...	913
marker, coil ...	447	marquetry cutter ...	473	master, job ...	711
marker, corse ...	447	marquetry engraver ...	473	master, keelman ...	738
marker, culinary ...	279	marquetry inlayer ...	473	master, labour ...	731
marker, double ...	279	marshman ...	704	master, landing stage ...	731
marker, fiddle (boots) ...	429	marshal (university) ...	929	master, lock ...	741
marker (files) ...	279	marsh hand ...	915	master, loaming ...	356
marker (for cutter) ...	428	marsh labourer ...	928	master, marine ...	731
marker, frame (pianos) ...	646	marsh labourer (farm) ...	928	master, metal mine ...	931
marker (galvanized sheets) ...	279	marsh looker (cattle) ...	922	master, night station ...	700
marker (grey cloth) ...	399	marsh looker (sheep) ...	920	master (non-metaliferous)	
marker, hall ...	283	marsh man (drainage) ...	926	mine or quarry) ...	670
marker (handy) ...	918	marsh man (farm) ...	924	master, pier ...	731
marker, lining ...	429	marsh stockman ...	922	master, pilot ...	731
marker, music (barrel organ) ...	646	marshman maker ...	435	master, port ...	731
marker (needles, fish hooks, etc.) ...	279	marshman mixer ...	435	master, posting ...	711
marker (pens) ...	254	marshman moulder ...	435	master, preparing (dax) ...	353
marker, piece (grey cloth) ...	399	marshman roller ...	435	master, quarry ...	670
marker, plate ...	279	marsh house man (brewery) ...	438	master, relief station ...	731
marker, plate mill ...	279	marsh house man (vinegar) ...	449	master, ring (circus) ...	869
marker, plate's ...	279	marsh maker ...	152	master (river barge, lighter, etc.) ...	738
marker (green metals) ...	286	marshman (brewery) ...	458	master, roughing ...	359
marker (rifle bullet) ...	899	marsh room man (brewery) ...	458	master, royalty ...	640
marker (rolling mill) ...	279	marsh tin man (brewery) ...	458	master, shed ...	700
marker (saws) ...	279	marsh (files) ...	259	master (ship) ...	733
marker (scales, weighing machines) ...	279	marsh-maker (fabric) ...	428	master, ship ...	733
marker, shearer's ...	279	marsh ...	572	master, ship's ...	733
marker, sheet ...	709	marsh, banker ...	572	master, since bridge ...	741
marker (shipper's) ...	749	marsh, builder ...	572	master, spinning ...	354
marker, size ...	429	marsh, cemetery ...	572	master, stanch ...	731
marker (slate mine or quarry) ...	673	marsh, fixer ...	572	master, station ...	700
marker, spring ...	279	marsh, foreman ...	572	master, swing bridge ...	741
marker, stitch ...	419	marsh (gritting stone) ...	572	master, tug ...	733
marker, stone ...	575	marsh, handstone hanker ...	572	master, washing ...	941
marker, strip ...	429	marsh, machine ...	572	master, weaving ...	356
marker, tape measure (steel) ...	322	marsh, marble ...	572	master, yard ...	700
marker, tape measure (textile) ...	399	marsh, monuments marble ...	572	master-al-arms (mercantile marine) ...	737
marker, tennis (professional) ...	695	marsh, quarry ...	572	master carman ...	713
marker (tents, tarpaulins, etc.) ...	429	marsh, slates (slate shaf factory) ...	576	master carpenter (theatre) ...	474
marker, test (steel works) ...	279	marsh, slate (slate shaf factory) ...	576	master carter ...	713
marker, ticks (sate weaving) ...	399	marsh, tery ...	572	master cooper ...	471
marker, timber (not as docks) ...	499	marsh, stone ...	572	master dyer ...	359
marker, timber (shipper's) ...	749	marsh, street ...	572	master hauler ...	941
marker (tinsplate) ...	279	marsh, waller ...	572	master mariner ...	733
marker, trade ...	399	marsh, walling ...	572	master of ceremonies (dance hall) ...	864
marker (umbrella, parasol) ...	416	marsh brush maker ...	572	master of hold ...	735
marker boy (shipbuilding) ...	279	marsh hand (brush making) ...	572	master of landing stage ...	731
marker-down (glass) ...	942	marsh cabinet maker ...	467	master of lighting ...	742
marker for branding cases & shipbuilding ...	949	marsh embroidery ...	407	master shifter ...	941
marker-off (logging or oak-ing) ...	210	marsh jeweller ...	284	master sinker (mine) ...	560
marker-off (grey cloth) ...	399	marsh seamstress ...	419	master steredore ...	732
marker-off (moulder) ...	180	marsh tyler ...	929	master steredore, assistant ...	749
marker-off (pianos) ...	646	marsh on tin floors ...	572	master stoneman ...	941
marker-off (ship plaster's) ...	663	marsh's assistant ...	572	master stoneman ...	941
marker-off (templates) ...	668	marsh's labourer ...	572	master stoneman ...	941
marker-off (textile warehouse) ...	343	marsh's labourer, monumental (braker's) ...	581	master stoneman ...	941
marker-off (tools) ...	499	marsh's tender ...	572	master stoneman ...	941
marker-off (wood) ...	499	marshage ...	735	master stoneman ...	941
marker-out (for cutter) ...	428	marshage mixer man ...	448	master stoneman ...	941
marker-out (forging, casting) ...	210	marsh and spar maker ...	468	master stoneman ...	941
marker-out (fustian, etc.) ...	399	master, assistant station ...	700	master stoneman ...	941
marker-out (glass) ...	128	master, assistant yard ...	700	master stoneman ...	941
marker-out (iron fencing) ...	279	master, baggage (ice board) ...	737	master stoneman ...	941
marker-out (wood) ...	499	master, baggage (shore) ...	739	master stoneman ...	941
marker-up ...	429	master, ballast ...	731	master stoneman ...	941
market carrier (house) ...	719	master, berthing ...	731	master stoneman ...	941
market carrier (motor) ...	720	master, bridge (dock) ...	741	master stoneman ...	941
market constable ...	969	master, bridge (railway) ...	703	master stoneman ...	941
market dropper ...	777	master, hney ...	731	master stoneman ...	941
market gardener ...	913	master, engine ...	869	master stoneman ...	941
market inspector ...	700	master, car (cotton) ...	353	master stoneman ...	941
market keeper ...	955	master, carding (cotton) ...	353	master stoneman ...	941
market labourer ...	575	master, carding (flax and hemp) ...	353	master stoneman ...	941
market manager ...	969	master, carriage ...	711	master stoneman ...	941
market man (coal mine) ...	942	master, charter ...	941	master stoneman ...	941
market man (coastermonger) ...	777	master, coach ...	711	master stoneman ...	941
market porter ...	759	master, coal ...	940	master stoneman ...	941
market porter (railway) ...	706	master, coal derrick ...	731	master stoneman ...	941
market salesman ...	777	master (colliery) ...	941	master stoneman ...	941
market salesman's assistant (market stall) ...	777	master, control ...	700	master stoneman ...	941
market superintendent, fish ...	700	master, depth ...	700	master stoneman ...	941
market sweeper ...	870	master, derrick ...	731	master stoneman ...	941
market toll collector ...	789	master, dock ...	731	master stoneman ...	941
market woman ...	777	master, dredger ...	733	master stoneman ...	941
marking ink maker ...	156	master, dredging ...	731	master stoneman ...	941
marking plate maker, butter ...	498	master, ferry ...	733	master stoneman ...	941
mark maker ...	238	master (fishing boat) ...	906	master stoneman ...	941
mark breaker ...	674	master, floodgate ...	741	master stoneman ...	941
mark grinder ...	194	master, fly ...	711	master stoneman ...	941
mark worker ...	674	master, fustian ...	359	master stoneman ...	941
		master, gang ...	915	master stoneman ...	941

	Code Number.		Code Number.		Code Number.
mate, farmer's ...	279	mealman (grain milling) ...	449	mechanical engineer ...	344
mate (female on canal boat) ...	738	measur cutter ...	412	mechanical fitter ...	210
mate, fire ...	733	measure maker ...	486	mechanical haulage hand ...	943
mate, fisher ...	000	measure maker, corn ...	486	mechanical inspector ...	700
mate, fitter's (engineering) ...	213	measure maker, fruit ...	486	mechanical rubber worker ...	808
mate, filter's (gas) ...	236	measure maker, rim ...	486	mechanical scientific instru-	
mate, gas filter's ...	236	measure maker, tape (steel) ...	322	ment maker ...	322
mate, hanger's (linoleum, etc.) ...	638	measures marker, tape (textile) ...	389	mechanician, orthopedic ...	853
mate, horse shaver's ...	275	measures marker, tape (textile) ...	389	mechanical laborer ...	417
mate, landing stage ...	741	measurer, bread (baking) ...	319	medallist (metal) ...	254
mate, miller's ...	089	measurer, cable ...	319	medallist (wax) ...	638
mate, miner's ...	074	measurer (cables) ...	319	medal striker ...	254
mate (on barge or canal boat) ...	738	measurer, card clothing ...	608	medial furniture maker, ...	
mate, pipe fitter's ...	251	measurer, card (textile) ...	608	brass ...	221
mate, plumber's ...	253	measur, cargo ...	943	medial iron worker ...	221
mate, sawyer's ...	499	measurer, case ...	943	medial metal worker ...	221
mate, second ...	723	measurer, oak ...	459	medial smith ...	221
mate, shed angustman's ...	701	measurer, cloth (textile) ...	868	medical agent ...	796
mate, shetter's ...	279	measur, cloth (textile) ...	868	medical rubber maker ...	808
mate (ship) ...	733	measur, cloth (textile) ...	868	medicated capsule maker ...	149
mate, stamper's ...	279	warehouse ...	739	medicated lounge cutter ...	148
mate, tester's (motor cars, ...	279	measur (commercial) ...	943	medial oil reiner ...	158
etc.) ...	279	measur (drugs and fra	943	medium ...	899
mate, third ...	733	measur, lace ...	362	medium, spirit ...	899
mate, water fitter's ...	253	measur, lace ...	362	meerschman, anamale (be-	
mate of landing stage ...	741	measur (lather) ...	338	hacco pipes) ...	688
mate of lightship ...	742	measur, piece ...	943	meerschman pipe maker	
material cutter ...	532	measur, piprop ...	749	(cannoe pipes) ...	688
material inspector (tramways) ...	714	measur, principal ...	749	melange ...	363
material maker, clock ...	324	measur, prop ...	749	melange machine minder ...	363
material maker, watch and		measur, rolling mill ...	278	melange sealer ...	364
clock ...	324	measur, skin (gloves) ...	428		
material man (copper mine) ...	941	measur, steel ...	278	melange attendant (shoco-	
mathematical instrument		measur, sworn ...	789	labe) ...	448
divider ...	322	measur (tailor's) ...	428	meller ...	072
mathematical instrument		measur (tapes, etc.) ...	943	mellor ...	072
engraver ...	322	measur (textile warehouse) ...	943	mellman ...	289
mathematical instrument		measur (timber) ...	486	melter, bullion ...	159
maker ...	322	measur, timber ...	486	melter, candles ...	159
mathematical rule maker ...	322	measur, timber (dock com-	749	melter, cast brass ...	159
mat maker (blue) ...	398	peny) ...	749	melter, couch grass ...	158
mat maker, india rubber ...	609	measur, timber (railway) ...	706	melter, dripping ...	159
mat maker (rubber) ...	608	measur, timber (sworn) ...	789	melter, dress ...	279
mat maker, rubber ...	608	measur, wood ...	488	melter, emulsion (photo-	
mat maker, sheep skin ...	338	measur and cutter ...	943	graphic) ...	148
mat packer ...	943	meat cleaner ...	449	melter, fat ...	159
mat printer ...	362	meat dresser ...	449	melter, fat (margarine) ...	449
mat puncher ...	609	meat foreman ...	700	melter (first hand) ...	171
mat puncher, india rubber ...	609	meat inspector ...	700	melter (fourth hand) ...	171
mat puncher, rubber ...	609	meat pitcher ...	706	melter, gelatine ...	159
matrix blacker (foundry) ...	278	meat porter ...	759	melter (glass founding) ...	122
matrix fitter (gramophone) ...	548	meat preserver ...	449	melter (glass tubes) ...	139
matrix fitter, gramophone ...	548	meat safe maker ...	449	melter, gold ...	286
matrix maker (moulder) ...	189	meat wader ...	449	melter, gold and silver ...	286
matrix maker (typesetting) ...	278	mechanic ...	245	melter (gold or silver) ...	286
matrix packer ...	278	mechanic, adding machine ...	267	melter, grease (fat extrac-	
matrix presser ...	278	mechanic, air ...	245	tion) ...	159
matrix stamper ...	278	mechanic, aircraft (building) ...	658	melter, grease (ghee, size) ...	159
matrix tester ...	278	mechanic, aircraft (repairing, ...	245	melter, head ...	171
matrix (bald) ...	919	etc.) ...	245	melter, kitchen stuff ...	159
matron (hospital, institution, ...	913	mechanic, aviation (construc-	658	melter, margarine ...	449
training college) ...	913	tion) ...	658	melter, night light ...	159
matron (lodging house) ...	912	mechanic, aviation (repair, ...	245	melter, oil ...	159
matron, police ...	929	etc.) ...	245	melter, platinum ...	286
matron (ship) ...	737	mechanic, builder's ...	588	melter, railway grease ...	159
matron of messengers (G.P.O.) ...	929	mechanic, chauffeur ...	720	melter (Royal Mint) ...	286
matron of school ...	913	mechanic, colliery ...	245	melter, scale ...	171
mat shaver ...	398	mechanic, cycle ...	229	melter, scarf ...	171
mat sorter ...	398	mechanic, dental ...	684	melter (secondhand) ...	171
matther, chair ...	472	mechanic, dental's ...	684	melter, silver ...	286
matting packer ...	943	mechanic, electrical ...	305	melter (soap) ...	159
matlock maker ...	180	mechanic, engine ...	245	melter, stearic acid ...	159
matress case maker ...	419	mechanic, examining (Post	308	melter, steel ...	171
matress fitter ...	278	Office Engineering Depart-	308	melter (sugar refining) ...	449
matress frame maker, wire ...	474	ment) ...	308	melter, tallow ...	159
matress maker (bedding) ...	502	mechanic, farmer's ...	245	melter (third hand) ...	171
matress maker, link ...	289	mechanic (G.P.O.) ...	310	melter (zinc) ...	171
matress maker, spring ...	289	mechanic (gramophone) ...	948	melter control man ...	449
matress stitcher ...	419	mechanic, ironmonger's ...	245	melter man (margarine) ...	449
matress varnisher, wire ...	598	mechanic, knitter ...	245	melter man (sugar refining) ...	449
matress weaver, spring ...	269	mechanic, loom ...	245	melting furnaceman ...	171
matress weaver, wire ...	269	mechanic, mill ...	245	melting house man (candles) ...	159
mat trimmer ...	388	mechanic, motor ...	248	melting pot maker ...	103
mat weaver, cocoa fibre ...	370	mechanic, optical ...	322	melt packer ...	449
mat weaver (cocoa fibre, color) ...	370	mechanic, player (player	848	member of salragu corps ...	909
mat weaver, color ...	370	pieces) ...	848	member, bag ...	989
matro assistant ...	433	mechanic, potter's ...	245	member, bag ...	449
matro baker ...	433	mechanic, sewing machine ...	245	member, belt ...	343
matro mixer ...	433	mechanic, skate ...	278	member, blood lace ...	379
matro rollerman ...	433	mechanic, skate (skating rink) ...	899	member, brown ...	379
matroth baker ...	433	mechanic (slate shaf factory) ...	578	member (carpet) ...	379
matroth mixer ...	433	mechanic, surgical ...	883	member, chair (cane) ...	472
matroth rollerman ...	433	mechanic, telegraph ...	310	member, colliery corse ...	852
matroth maker ...	472	mechanic, telephone ...	310	member, colliery tram ...	852
Maxim hand (boisery) ...	374	mechanic, typewriter ...	287	member, colliery tub ...	210
mealer (seed crushing) ...	159	mechanical carrier ...	524	member, comb ...	210
mealman (cattle cake) ...	168	mechanical coal cutter man ...	042	member, comb ...	210
		mechanical dentist ...	684	member, comb ...	210

	Code Number.		Code Number.		Code Number.
mender (cords) ...	406	mess room steward ...	737	meter fitter, wet gas ...	210
mender, dress (hosiery) ...	379	mess room steward, engineer's ...	737	meter fitter (electric) ...	311
mender, embroidery ...	379	mess superintendent (army) ...	911	meter fitter (gas) ...	235
mender, fancy lace ...	379	metal and oil separator ...	159	meter hand ...	309
mender, finished ...	379	(engineering works) ...	159	meter inspector (electricity ...	892
mender, finish (hosiery) ...	379	metal breaker (blast furnace) ...	279	supply) ...	892
mender, finishing net ...	383	metal breaker (puddling) ...	279	meter inspector (railway) ...	700
mender, flyer ...	278	metal breaker (scrap metal) ...	279	meter inspector, waste (water- ...	882
mender, glass ...	909	metal bronzer ...	241	works) ...	882
mender, grays ...	046	metal buttonholer ...	619	meter inspector (waterworks) ...	302
mender, head ...	398	metal carrier (foundry ...	279	meter maker, electric ...	309
mender, Houston ...	379	metal carrier, pig bed ...	163	meter maker (astrical) ...	309
mender, hosiery ...	379	metal carrier (pig iron) ...	279	meter maker, gas ...	264
mender, butch ...	652	metal carrier, block ...	279	meter maker, torsion ...	309
mender, invisible ...	419	metal casement drill ...	279	meter maker, wet gas ...	264
mender (iron tank) ...	278	metal casement fitter ...	200	meter man, coal ...	789
mender (lace) ...	379	metal cleaner (brass, bronze) ...	185	meter man (electricity supply) ...	699
mender, lace ...	379	metal cleaner (iron or steel) ...	163	meter prover ...	278
mender, net (finishing nets) ...	398	metal contractor ...	941	meter prover, gas ...	278
mender, net (lace) ...	379	metal dresser ...	047	meter reader ...	699
mender, piece ...	379	metal drill ...	047	meter repairer, electric ...	309
mender, pit box ...	652	metal edger ...	558	meter repairer (electrical) ...	309
mender, point lace ...	379	metal eider ...	122	meter repairer, gas ...	264
mender, press cloth ...	419	metal game maker ...	269	meter repairer (gas, &c.) ...	245
mender, retort (bricklayer) ...	566	metal key maker (wood wind ...	648	meter room assistant ...	319
mender, rough (hosiery) ...	417	musical instruments) ...	648	meter state taker ...	699
mender, sock ...	417	metal leaf ticket printer ...	537	meter superintendent (elec- ...	699
mender (sock, hat) ...	419	metallizer (bronzing) ...	538	meter tester ...	308
mender, sheet ...	379	metallizer, white metal) ...	279	meter tester, electric ...	308
mender, sprig ...	379	metallizer (white metal) ...	279	meter tester (gas and water ...	278
mender, stiff net ...	343	metallize fringe maker ...	407	meters) ...	278
mender, strap ...	467	metallize pad maker ...	264	methylated spirit maker ...	143
mender, Swiss embroidery ...	419	metallize tubing fitter ...	210	news manager ...	711
mender, tant ...	379	metal loader ...	279	mesanite mesd ...	900
mender (textile mill) ...	383	metal machinist ...	290	micca checker (electrical app- ...	304
mender, towel ...	652	metal man (coal mine) ...	044	paratus) ...	304
mender (umbrella, parasol) ...	416	metal man, stock ...	278	micca cutter (plates) ...	098
mender (vehicles, etc.) ...	504	metal mixer (cool mine) ...	044	micca dabber ...	304
mender, velvet ...	379	metal mixer, road (stone ...	072	micca ganger ...	308
mender (velvet, fustian, etc.) ...	379	miner) ...	072	miccinite builder ...	304
mender, white ...	379	metal mixer (brass, bronze) ...	164	miccinite cutter ...	304
mender, wringer ...	379	metal mixer (nickel silver) ...	293	miccinite maker ...	618
mesdinger, percher ...	770	metal mixer (steel) ...	278	miccinite moulder ...	304
mes's entitle ...	770	metal mixer (typefoundry) ...	278	miccinite plate builder ...	098
mesquite agent ...	798	metal mixer, tube maker ...	278	miccinite plate layer ...	098
mesurier ...	398	metal picker ...	054	miccinite tube maker ...	304
mesurier ...	770	metal polisher ...	949	miccinite tube worker ...	304
mesurier, builder's ...	770	metal polish filler ...	949	miccinite washer maker ...	618
mesurier, coal ...	770	metal polish labeler ...	158	miccinite worker (electrical in- ...	618
mesurier, commission ...	770	metal polish mixer ...	158	sulation) ...	618
mesurier, fashier ...	770	metal polish presser ...	158	micca pasteur ...	304
mesurier, hide and skin ...	770	metal printer ...	526	micca pressman ...	304
mesurier, top ...	770	metal refiner ...	278	micca ring builder ...	098
mesurier, provision ...	770	metal splitter (tube) ...	278	micca sorter ...	099
mesurier, tailor's trimmings ...	770	metal smith, art ...	221	micca splitter ...	098
mesurier, trade ...	770	metal smith, Britannia ...	287	micca turner ...	098
mesurier, wool ...	770	metal smith (gas meters) ...	278	micca worker (electrical in- ...	618
mesurier, tailor ...	770	metal sorter (general engin- ...	279	sulation) ...	618
mesurier, tailor ...	770	metal sorter (scrap) ...	954	micrometer maker ...	304
mesurier, barometer assembler ...	322	metal sorter, scrap ...	954	micro-objective lens worker ...	138
mesurier, barometer mounter ...	322	metal spinner ...	247	microphone maker ...	309
mesurier, barometer maker ...	322	metal stamper ...	254	microscope constructor ...	309
mesurier, purifier ...	143	metal stamper, gun ...	254	microscope maker ...	322
mesurier, sorter (rag) ...	360	metal steamer at mixer ...	278	mid-day attendant (special ...	828
mesurier, sorter (wool) ...	360	metal tipper (steel manufac- ...	279	school) ...	828
mesh bag maker (gold and ...	234	ture) ...	279	middle minder ...	309
mesh winder ...	303	metal washer ...	139	middle (rolling mill) ...	279
mesh boy ...	929	metal weigher ...	273	middle shift overman ...	341
mesh caterer ...	911	metal weigher, hot (blast fur- ...	939	middle sole outer ...	413
mesh caterer (army) ...	911	nace) ...	939	middle sole moulder ...	414
mesh contractor ...	911	metal wheeler ...	279	middle sole rounder ...	414
mesonger ...	758	metal window machinist ...	200	middle sole sorter ...	414
mesonger, assistant head ...	758	metal worker, art ...	221	middle sole stiver ...	414
(Post Office) ...	758	metal worker (linoleum) ...	221	middlewoman ...	429
mesonger, bank ...	758	metal worker, medianal ...	221	midnightman ...	735
mesonger, boy ...	758	metal worker, sheet ...	254	midnightman ...	735
mesonger, boy (Post Office) ...	758	metal worker, white ...	287	midnightman ...	735
mesonger (clothing trades) ...	758	metal yardman ...	279	midnightman ...	735
mesonger (coal mine) ...	758	meteorological instrument ...	322	midnightman ...	735
mesonger, district ...	758	maker ...	322	midnightman ...	735
mesonger, dock ...	758	meteorological reporter and ...	749	midnightman ...	735
mesonger, girl (Post Office) ...	758	signalman ...	749	midnightman ...	735
mesonger, head ...	758	meter ...	789	midnightman ...	735
mesonger, insurance ...	758	meter, worn ...	789	midnightman ...	735
mesonger, letter ...	758	meter assembler ...	309	midnightman ...	735
mesonger, licensed ...	758	meter assembler, electric ...	309	midnightman ...	735
mesonger, night ...	758	meter case painter ...	309	midnightman ...	735
mesonger, submarine com- ...	758	meter clerk ...	309	midnightman ...	735
mesonger, pany's ...	758	meter collector, automatic ...	789	midnightman ...	735
mesonger, telegraph (Post ...	758	meter collector, coin slot ...	789	midnightman ...	735
Office) ...	758	meter engineer (electricity) ...	690	midnightman ...	735
mesonger, tube ...	758	meter fitter, electric ...	309	midnightman ...	735
mess man (army) ...	929	meter fitter (electric) ...	309	midnightman ...	735
mess room attendant ...	929	meter fitter (gas, water ...	210	midnightman ...	735
mess room boy (ship) ...	737	meter) ...	210	midnightman ...	735
mess room cook ...	900	meter fitter (waterworks) ...	252	midnightman ...	735
mess room maid (institution) ...	900			midnightman ...	735

	Code Number.		Code Number.		Code Number.
milk float builder ...	475-6	millier, pug (pottery) ...	194	mill labourer (textile) ...	399
milk float maker ...	475-8	millier, rice ...	432	mill labourer, wire ...	279
milk foeman ...	706	millier, saw ...	290	mill lad ...	149
milk hawker ...	776	millier, scribbling ...	364	mill machine brush maker ...	633
milk kutter ...	776	millier, shoddy (rag grinding) ...	382	mill machinist ...	446
milk maker, condensed ...	443	millier, shoddy (textile finish- ing) ...	384	millman, steam ...	149
milk maker, dried ...	443	millier, soap ...	159	millman, bouse ...	149
milk maker, preserved ...	443	millier, soap powder ...	159	mill man (chemical works) ...	149
milksman (on farm) ...	622	millier, space band (linotype machine) ...	200	millman, colour ...	118
milksman (roundsman) ...	776	millier (starch factory) ...	432	millman, copper (wet process) ...	149
milk pasteuriser ...	443	millier, stone lime ...	099	millman, fuller's earth ...	099
milk porter ...	706	millier, stone (manure) ...	149	millman (fur skins) ...	331
milk powder worker ...	449	millier, straw hats ...	409	millman (gunpowder) ...	149
milk receiver (pasteurising, do.) ...	449	millier, sword blade ...	200	millman, gypsum ...	099
milk room man ...	449	millier (textile finishing) ...	384	millman (hair) ...	393
milk separator ...	449	millier, tool ...	200	millman, hair ...	393
milk steriliser ...	448	millier, universal ...	200	mill man, lead ...	199
milk sugar maker ...	448	millier, wash ...	099	millman (leather dressing) ...	334
milk tester ...	448	millier (wash mill) ...	099	mill man, loom ...	183
milk attendant (chalk, clay, do.) ...	074	millier, whitening powder ...	099	millman, malt ...	453
milk attendant, grinding ...	099	millier, wooden ...	384	millman (metal mine) ...	066
milk attendant, gear ...	143	millier's mate ...	099	mill man (nickel) ...	273
milk attendant (lead pencil) work) ...	099	millier's oiler ...	099	millman, nickel ...	278
milk attendant, pug (brick work) ...	119	millier's stoneman ...	575	millman, oil leather ...	334
milk attendant, pug (foundry) work) ...	183	mill feeder, ball (copper rolling) ...	279	mill man, paint ...	199
milk attendant, rolling ...	212	mill feeder, bark ...	339	mill man (patent fuel, etc.) ...	099
milk attendant (rolling mill) work) ...	212	mill feeder, basic slag ...	099	millman (pottery) ...	104
milk attendant, starch ...	449	mill feeder (metal mine) ...	058	millman, pottery ...	104
milk attendant, sugar ...	343	mill feeder (patent fuel, etc.) ...	069	mill man, pug (cement, etc.) ...	099
milk band maker ...	343	mill foreman, blue ...	151	millman (roller) ...	173
milk band or belt outler ...	342	mill foreman (cement) ...	091	mill man (rolling mill) ...	279
milk behander ...	178	mill furnaceman (copper) ...	171	millman, salt ...	099
milk breaker ...	072	mill turner ...	770	millman, sheet lead ...	173
milk cleaner, diamond ...	633	mill hand (black lead) ...	099	millman (milk) ...	372
milk cleaner (seed crushing) ...	159	mill hand (carbon) ...	589	mill man, starch (lead) ...	199
milk cropper and shearer ...	279	mill hand (cement) ...	099	mill man, starch ...	449
milk engine man ...	950	mill hand (chemical works) ...	149	millman (stone mine or quarry) work) ...	072
milk engine liker ...	279	mill hand, dust ...	119	millman (textile finishing) ...	384
millier, axle box ...	200	mill hand, foreman ...	331	millman (tin mine) ...	066
millier (barley mine) ...	076	mill hand (fur skins) ...	339	millman, time ...	152
millier, basic slag ...	076	mill hand (galvanised sheets) work) ...	370	millman, wash (bleach works) work) ...	380
millier, haycock ...	200	mill hand (hair) ...	393	millman (wet process) ...	149
millier (cocoa) ...	448	mill hand (hair washing) ...	393	millman, whitening ...	099
millier, cement ...	099	mill hand (horse food) ...	449	mill mechanic ...	245
millier (cement, patent fuel) ...	099	mill hand, huck (carding) work) ...	363	mill operator, herring ...	200
millier (chemical labourer) ...	143	mill hand, huck (coco-nut fibre) ...	398	mill operator (rubber) ...	600
millier (chemicals) ...	143	mill hand (lead) ...	099	mill raser (copper rolling) ...	279
millier, cloth ...	394	mill hand (mustard) ...	449	mill roller, plate ...	178
millier, coal ...	099	mill hand (parke lead) ...	449	mill roller, rod ...	178
millier, colour ...	118	mill hand, reel ...	371	mill roller, roughing ...	178
millier, coprolite ...	143	mill hand, roller (gramophone records) ...	646	mill roller, sheet ...	178
millier, cork ...	633	mill hand, rubber ...	603	mill roller, wire rod ...	178
millier, crane ...	200	mill hand, shaft ...	372	mill room foreman (fur skins) work) ...	381
millier, die ...	200	mill hand, tins ...	132	mill sawyer ...	481
millier, dry ...	099	mill heater (rolling mill) work) ...	171	mill sawyer, band ...	481
millier, dry soap ...	159	milliner, babies' ...	419	millstone builder ...	575
millier, dust ...	159	milliner, cap (bat) ...	400	millstone dresser ...	575
millier, dyewood ...	164	milliner, cap (umbrella, parasol) ...	419	millstone maker ...	575
millier, felpar ...	146	milliner, fancy hosiery ...	419	mill superintendent (galvan- ised sheet, tin plate) ...	164-169
millier (felt hats) ...	450	milliner (bat making) ...	408	mill tender ...	072
millier (fannel) ...	384	milliner, horse ...	420	mill tender ...	339
millier, flat ...	200	milliner, hosiery ...	419	mill top man ...	199
millier, flint ...	104	milliner, infants' ...	419	mill turner, hobbin ...	486
millier, fulling ...	384	milliner, retail dealing ...	419	mill turner, wooden hobbin ...	486
millier, glass ...	104	milliner, straw ...	408	mill walker ...	369
millier, grain ...	432	milliner, widows' ...	408	mill warper ...	367
millier, grinding ...	432	milliner's assistant ...	408	mill worker, angle ...	279
millier, grip ...	099	milliner's copyist ...	408	mill worker, barries ...	099
millier, gum ...	099	millinery machinist ...	419	mill worker, pencil ...	688
millier (hair) ...	393	millinery ornament maker ...	428	mill worker, pug ...	564
millier, hair ...	393	millinery wire blocker ...	428	mill worker, sheet ...	279
millier, head ...	191	millinery wire coverer ...	428	mill worker, slate ...	576
millier, horse hair ...	393	millinery wire winder ...	428	mill worker, sugar ...	449
millier, hydraulic line ...	099	millling hand (soap) ...	159	millwright ...	212
millier, lime ...	099	millling machineman ...	200	millwright engine ...	212
millier, logwood ...	143	millling machine worker ...	200	millwright's labourer ...	213
millier, machine knife ...	250	millling machinist ...	200	milner (hair) ...	388
millier, madder ...	140	millling machine ...	200	milner, hair ...	398
millier (maize) ...	449	millling machinist ...	200	milner, lime ...	099
millier (maize) ...	449	millling machine ...	200	milner (patent fuel, etc.) ...	099
millier, malt ...	458	millling machine ...	200	milner, piece ...	384
millier (manure) ...	149	millling machine ...	200	milner (textile finishing) ...	384
millier (metal machinist) ...	200	millling machine ...	200	miscmet filler ...	449
millier (metal mine) ...	058	millling machine ...	200	miscmet maker ...	449
millier, mustard ...	446	millling machine ...	200	miscmet, rubber ...	605
millier, oil ...	159	millling machine ...	200	miscmet, sausage meat ...	448
millier, paint ...	152	millling machine ...	200	mind, age ...	383
millier (paper making) ...	516	millling machine ...	200	mind, ageing machine ...	394
millier, phosphate ...	384	millling machine ...	200	mind, sger ...	399
millier, piece ...	384	millling machine ...	200		
millier, potter's ...	104	millling machine ...	200		
millier (pottery) ...	104	millling machine ...	200		
millier, pottery ...	104	millling machine ...	200		
millier, profile ...	200	millling machine ...	200		
millier, pug (brick works) ...	119	millling machine ...	200		

	Code Number.		Code Number.		Code Number.
mander, assistant stove	279	mander, endless rope	043	mander, opener	362
mander, automatic machine	279	mander, fan	047	mander, padding machine	381
mander, back (calender)	399	mander, feed box	367	mander, patent dressing machine	383
mander, back (draw frame)	399	mander, finisher	362	mander, pegging machine	384
mander, back end	363	mander, finisher card	363	mander, perforating machine	552
mander, back (finishing)	399	mander, finisher machine	362	mander, (piano) rolls	527
mander, back (flax, jute)	399	mander, finishing box	363	mander, perforator	527
mander, backwash	363	mander, finishing gill box	363	mander, Pettitwell	584
mander, backwasher	363	mander, flat dressing machine	363	mander, platen machine	529
mander, belting finisher	363	mander, fly (dye) side	365	mander, plier	296
mander, balling head (wool combing)	363	mander, flywheel	399	mander, point	043
mander, balling machine (fin- ishing)	398	mander, folding machine (printer's)	549	mander, preparing box (wool combing)	383
mander, balling machine (wool combing)	363	mander, folding machine (textile making-up)	343	mander, preparing machine (silk)	383
mander, balling punch	363	mander, folding machine (textile mill)	399	mander, pressing machine	384
mander, ball machine (jute)	363	mander, front (cotton draw frame)	363	mander, printing machine	529
mander, balloon	363	mander, front (jute)	363	mander, process machine	529
mander, bank	363	mander, gang	043	mander, pulley	043
mander, bar (pins)	279	mander, gapping machine	396	mander, pump (coal mine)	047
mander, beaming machine	367	mander, gig	043	mander, pump (metal mine)	054
mander, bell	278	mander, gill box	363	mander, punch	363
mander, block (coal mine)	043	mander, gilling machine (silk)	363	mander, punch box	363
mander, block (glass)	139	mander, goods machine	362	mander, raising machine	584
mander, block (wire works)	279	mander, grinding machine (cocoa)	449	mander, reducer	363
mander, bobbin machine	367	mander, hopper (carding, drawing)	363	mander, reducing box	379
mander, bond	043	mander, hopper (cotton blow- ing)	362	mander, rivet machine	293
mander, bowl end	384	mander, hydro-extracting ma- chine	398	mander, rope (coal mine)	043
mander, box (silk)	399	mander, hydro-extractor	398	mander, rope (metal mine)	054
mander, box (wood combing)	363	mander, incline	043	mander, rotary machine	529
mander, braiding machine	398	mander, intermediate ma- chine	363	mander, rover	363
mander, brake	639	mander, jack	371	mander, roving	363
mander, brushing machine	384	mander, jig	043	mander, roving box	363
mander, cabin	047	mander, journey	365	mander, roving frame	363
mander, cable machine	318	mander, kiver	380	mander, ruling machine	533
mander, calender	363	mander, kilo (grain milling)	449	mander, run-over box	383
mander, can	363	mander, landing	043	mander, sateen (cotton)	372
mander, can box (wool comb- ing)	363	mander, lap machine	362	mander, seamless machine	363
mander, can finishing	363	mander, latex	529	mander, self-actor (doubing)	396
mander, carbon paper machine	558	mander, liming machine	380	mander, self-actor (spinning)	365
mander, card (flax, hemp)	363	mander, line sizer (rope)	399	mander, separator (grain milling)	439
mander, carding	363	mander, lithographic machine	529	mander, separator (granery)	442
mander, carding	363	mander, long side (silk)	398	mander, set box (silk)	363
mander, card setting machine	225	mander, low side	384	mander, shaft	136
mander, card (wool)	363	mander, machine (automatic or semi-automatic)	279	mander, shafting	399
mander, cart	723	mander, machine (automatic woodworking machinery)	436	mander, short side (silk spin- ning)	363
mander, chain	399	mander, machine (blowst)	433	mander, short (coal mine)	704
mander, cheating frame	371	mander, machine (brick work)	119	mander, side (textile spinning)	365
mander, checking machine	380	mander, machine (cardboard boxes)	245	mander, sideing	363
mander, cloth cutting machine	384	mander, machine (developing)	527	mander, silencing machine	367
mander, comb	363	mander, machine (dough)	433	mander, silver (flax and hemp)	399
mander, combing machine	363	mander, machine (dye house)	399	mander, silver (wool combing)	363
mander, comb (ramie)	363	mander, machine (film print- ing)	527	mander, soaping machine	399
mander, condenser (flax and hemp)	363	mander, machine (flour or grain mill)	432	mander, softening machine	380
mander, condenser (silk)	363	mander, machine (grist mill)	432	mander, spindle box	363
mander, condenser (wool)	363	mander, machine (moss rolls)	552	mander, spindle gill box	363
mander, copper (straw plait)	429	mander, machine (nails)	276	mander, spreader machine (flax, hemp)	363
mander, coping frame	371	mander, machine (paper making)	519	mander, squeezing machine (bleaching)	363
mander, cot box	399	mander, machine (piano action)	466	mander, squeezing machine (dyeing)	399
mander, cylinder drying machine	386	mander, machine (pressing or stamping)	254	mander, station	043
mander, cylinder machine	529	mander, machine (printing works)	529	mander, stealer	384
mander, damping machine	384	mander, machine (wool card- ing)	363	mander, steaming machine	384
mander, dandy	363	mander, machine (wool card- ing)	363	mander, steam breaker	056
mander, dash wheel	384	mander, machine (wool card- ing)	363	mander, steel	941
mander, decatir machine	384	mander, machine (wool card- ing)	363	mander, steel	941
mander, decatizing machine	384	mander, machine (wool card- ing)	363	mander, stretching machine	171
mander, decatizing machine (pepper)	449	mander, machine (wool card- ing)	363	mander, stretching machine back	399
mander, Derby	363	mander, machine (wool card- ing)	363	mander, syphon (coal mine)	047
mander, developing machine (textile printing)	398	mander, machine (wool card- ing)	363	mander, syphon (metal mine)	054
mander, devil	363	mander, machine (wool card- ing)	363	mander, switch (wire works)	279
mander, die	136	mander, machine (wool card- ing)	363	mander, switch	043
mander, dolly	369	mander, machine (wool card- ing)	363	mander, tack	279
mander, door	054	mander, machine (wool card- ing)	363	mander, tattering machine	384
mander, doubler	366	mander, machine (wool card- ing)	363	mander (textile spinning)	365
mander, double finisher	382	mander, machine (wool card- ing)	363	mander, tin plate machine	529
mander, doubling machine	386	mander, machine (wool card- ing)	363	mander, trap door	054
mander, dough machine	433	mander, machine (wool card- ing)	363	mander, treadle	419
mander, draw box	363	mander, machine (wool card- ing)	363	mander, turn	043
mander, drawing box	363	mander, machine (wool card- ing)	363	mander, twister	366
mander, drawing frame	363	mander, machine (wool card- ing)	363	mander, twisting machine	366
mander, drawing machine	363	mander, machine (wool card- ing)	363	mander, van	722
mander, drum machine (silk)	398	mander, machine (wool card- ing)	363	mander, warping	367
mander, drying cylinder	398	mander, machine (wool card- ing)	363	mander, warping machine	367
mander, drying machine	398	mander, machine (wool card- ing)	363	mander, washing machine (bleaching)	380
mander, drying machine (tex- tile finishing)	384	mander, machine (wool card- ing)	363		
mander, dungbeck	399	mander, machine (wool card- ing)	363		
mander, dunging machine	399	mander, machine (wool card- ing)	363		
mander, edge (linoleum oil- cloth)	639	mander, machine (wool card- ing)	363		
mander, edge (textile finishing)	384	mander, machine (wool card- ing)	363		
mander (embroidery machine)	429	mander, machine (wool card- ing)	363		

	Code Number.		Code Number.		Code Number.
mixer, low	362	monotype coating machine	524	motor minder (hydro-extraction)	398
mixer, wafers	433	monotype attendant	524	motor wheel minder	843
mixer, wet (chemicals)	148	monotype keyboard operator	523	motor assembler (electrical)	518
mixer (wet, rubber)	602	monotype operator	523	motor assembler (engineering works)	279
mixer, wire	455	monotype attendant	449	motor assembler (gramophone)	648
mixer, wool	362	monotypist boy	449	motor body designer	932
miser and charger, blue	158	monumental engraver	574	motor body maker	475-6
miser attendant (cement)	099	monumental letter engraver	574	motor brush maker	639
miser attendant, chocolate	443	monumental marble engraver	572	motor builder	210
miser attendant, scum (finger refining)	449	monumental marble turner	575	motor cab driver	720
mixer boy (pottery)	115	monumental mason	572	motor cab proprietor	712
mixer boy (paper refining)	448	monumental mason's labourer	573	motor car conductor (chassis base, &c.)	724
miser man, bag	448	monumental sculptor	574	motor car conductor (railway)	702
miser man, musciculus	448	moeder (gotted blade)	190	motor car driver	720
miser man (slag and slag wool)	279	mooring chain maker	749	motor car driver, rail	701
miser's cutter	609	mooring man	749	motor car hood maker	658
mixing house man (gunpowder)	149	moop and belt dresser	099	motor car inspector	714
mixing house worker (gunpowder)	149	moop dresser	688	motor car lamp maker	224
mixing machine attendant	099	moop maker	688	motor car washer	720
mixing machine minder (bags, bread, &c.)	433	moop maker, calico	688	motor char-a-banc driver	712
mixing machine operator, bars	519	moop maker, jeweller's	688	motor cleaner (electricity supply)	692
mixing machine operator, brittle	639	moop maker, leather	688	motor cleaner (electric railway)	761
mixing machines (siccuits)	433	moop maker, polishing	688	motor cleaner (garage)	723
mixing operator (explosives)	149	moop maker, rag	688	motor conductor, rail	702
mixing puller	399	mooper, first (tobacco pipes, not clay)	686	motor conductor (railway)	702
mixing room worker	449	mooper, grease (metal trades)	238	motor cycle assembler	279
model	775	mooper, grane (silver and plate)	285	motor cycle engineer	248
model, showroom	775	mooper hard (tobacco pipes, not clay)	688	motor cycle engine fitter	210
modeller, architectural	221	mooper (leather goods)	349	motor cycle fitter	229
modeller (art metal)	118	mooper (metal trades)	288	motor cycle maker	227
modeller, film producing	638	mooper, second (tobacco pipes, not clay)	688	motor cyclist guide	724
modeller, lead	278	mooper (silver and plate)	285	motor cyclist mount	729
modeller (metals)	278	mooper (tobacco pipes, not clay)	688	motor demonstrator (transways)	729
modeller, ornamental (terra cotta)	118	moop stick maker	684	motor driver	720
modeller, paper pattern	558	moopending worker	384	motor driver (colliery)	554
modeller, pattern (paper pattern)	558	moordant maker (chemicals)	143	motor driver (motor vessel)	734
modeller, plaster	636	moordant maker (textile dyeing)	361	motor driver, steam	701
modeller, pottery	118	moorning girl	980	motor driver, teleph	720
modeller (shipbuilding)	688	morphia maker	361	motor driver's assistant	248
modeller (silver and plate), stucco	638	mortar boy	573	motor engine fitter	210
modeller, terra cotta	118	mortar carrier	573	motor erector (generators, &c.)	210
modeller, wax	488	mortar grinder	564	motor erector (rolling stock)	210
modeller (wood)	488	mortar mill labourer	564	motor erector (self-propelled road vehicles—not steam)—	210
model maker (brick, tile)	428	mortal mixer	564	motor examiner (electric railways)	368
model maker, hairdresser's	278	mortgage agent	799	motor examiner (tramways depot)	714
model maker (metal trades)—	480	mortgage broker	799	motor examiner (tramway—repair shop)	308
model maker, metal	480	mortice latch locksmith	243	motor finisher	475-6
model maker (pattern maker), plaster	638	mortice lock maker	243	motor fitter (electrical)	318
model maker (ship)	688	mortise locksmith	243	motor fitter (rolling stock)	210
model maker, ship's	688	mortiser	408	motor fitter (self-propelled road vehicles—not steam)—	210
model maker, wood	488	morting machinet	568	motor fixer (electrical)	311
model map examiner	548	mortality attendant	821	motor fitter (electrical) engineering works)	216
model yard maker	688	mortality keeper	821	motor garage foreman	716
modelist (dye-drawing)	405	mosaic artist	118	motor garage manager	712
modelist (millinery)	408	mosaic cutter (pottery)	571	motor garage proprietor	712
moirai sorter	360	mosaic rutter (stone or glass)	571	motor guard (Post Office)	723
moirai winner	367	mosaic fixer	571	motor guard (railway)	702
moirai wirer	398	mosaist (contractor's)	571	motor guide	723
moirai yarn curler	398	mosaist (glass works)	138	motor hiner	712
moister	139	mosaist pavement maker	571	motor inspection maker	369
moil wheeler	558	mosaic setter	571	motor igniter (electricity supply)	692
moistener	039	mosaic tile fixer	571	motor inspector, rail	708
moistener	039	mosaic tiler	571	motor inspector (tramway depot)	714
moistener	039	mosaic worker (contractor's)	571	motor inspector (tramway truck)	308
mo		mosaist		motor jobmaster	712
		mosaist		motor lawn mower driver	728
		mosaist		motor lorry driver	723
		mosaist		motor lowry driver's assistant	723
		mosaist		motor machinist	290
		mosaist		motor man (electric)	954
		mosaist		motor man, electric	954
		mosaist		motor man (motor vessel)	734
		mosaist		motor man (railway)	701
		mosaist		motor man, screen	950
		mosaist		motor man, teleph	854
		mosaist		motorman (tramway)	722
		mosaist		motorman, tramway	722
		mosaist		motor roaster	720
		mosaist		motor omnibus driver	720
		mosaist		motor patrol	729
		mosaist		motor plough driver	092

	Code Number.		Code Number.		Code Number.
motor porter ...	723	moulder, gelatine ...	159	mould maker, magnetic ...	116
motor portress ...	723	moulder (glass) ...	125	mould maker (potter's) ...	118
motor repairer ...	248	moulder, glue ...	159	mould maker, pottery ...	436
motor roller driver ...	729	moulder, golf ball cover ...	692	mould maker (sweets) ...	436
motor rully driver ...	720	moulder, green sand ...	180	mould maker, towel ...	435
motor scout ...	729	moulder, gum (confectionery) ...	435	mould man, alum ...	149
motor smith ...	190	moulder, gun metal ...	161	mould man (steel) ...	277
motor spirit plant attendant ...	142	moulder, katie percha ...	602	mouldman (paper making) ...	512
motor starter fitter ...	309	moulder, lead ...	180	mould opener, golf ball ...	406
motor starter maker ...	309	moulder, lead pad and sole ...	502	mould preparer ...	278
motor steam drier driver ...	721	moulder, hollow-ware ...	180	mould runner ...	119
motor steam lorry driver ...	721	moulder, masonry needle ...	188	mould setter (steel) ...	278
motor steam lorry stoker ...	721	moulder, india rubber ...	602	mould setter (typefoundry) ...	278
motor steerer ...	721	moulder, india rubber tyre ...	602	moulds man ...	278
motor stoker ...	721	moulder, insode ...	414	mould squarer ...	190
motor sweeper driver ...	729	moulder, iron pipe ...	180	mould steeler (edge tools) ...	190
motor heater (engineering works) ...	278	moulder, lead pencils ...	499	mould tier ...	278
motor tester (tramways) ...	308	moulder, lens ...	125	mould wiper (phonograph records) ...	649
motor tractor driver ...	721	moulder, loam ...	180	mountain maker ...	159
motor tractor driver (on farm) ...	621	moulder, machine ...	180	mount binder ...	556
motor tread fitter ...	640	moulder, machine glass bottle ...	125	mount cutter (picture) ...	558
motor truck driver ...	769	moulder, marrison ...	435	mount cutter (picture frame) ...	485
motor tube maker ...	602	moulder (metal trades) ...	180	mounter, accessories ...	389
motor turner ...	200	moulder, misonite ...	304	mounter, aneroid barometer ...	322
motor tyre bead fitter ...	603	moulder, middle sole ...	414	mounter (artificial flowers) ...	568
motor tyre fitter ...	659	moulder, motor tyre ...	602	mounter, artificial flower ...	568
motor tyre moulder ...	602	moulder, nail ...	159	mounter, barometer ...	322
motor van driver ...	720	moulder, night light ...	180	mounter, body ...	475-6
motor van driver's assistant ...	720	moulder, oddweck ...	180	mounter, boiler ...	210
motor van guard (mail) ...	720	moulder, outside ...	414	mounter (boilers) ...	210
motor wagon driver ...	720	moulder, papier maché ...	558	mounter (boilers and tanks) ...	278
motor wagon loader ...	706	moulder, patent slab ...	602	mounter, book ...	552
motor wagon stoker ...	721	moulder, pattern ...	180	mounter (bookbinder's) ...	263
motor water-cart driver ...	720	moulder, pattern plate ...	180	mounter, briar ...	263
motor wherry driver ...	720	moulder, pig bed ...	279	mounter, carbon ...	639
mottler, button ...	619	moulder, pipe bank ...	180	mounter, chart ...	548
mottler (pottery) ...	107	moulder, pipe pit ...	180	mounter, coach ...	475-6
mottle winder ...	367	moulder, plate ...	180	mounter, coach body ...	475-6
motley boy ...	048	moulder (pottery) ...	105	mounter, composition ...	465
motley lad ...	048	moulder, puff ...	414	mounter (cotton loom) ...	389
mould boy ...	139	moulder, puttee ...	428	mounter, cover ...	389
mould cleaner, golf ball ...	609	moulder, railway chair ...	180	mounter (cutlery) ...	228
mould cleaner (steel manufacture) ...	279	moulder, roll ...	180	mounter, dagger sheath ...	278
mould cooler (steel works) ...	279	moulder, rubber ...	602	mounter, diamond ...	204
mould coverer (cardboard making machine) ...	278	moulder, rubber ...	602	mounter, drawing ...	550
mould coverer, towel ...	428	moulder, rubber heel ...	602	mounter, dry ...	548
mould coverer (trimming) ...	428	moulder (rubber stamp making) ...	602	mounter, electro ...	263
mould cutter (artificial teeth) ...	230	moulder, sand ...	180	mounter (electrotyping) ...	313
moulded brick maker ...	102	moulder, shell ...	180	mounter, element ...	264
moulded maker ...	118	moulder, slop ...	119	mounter, gem ...	284
moulded scribe maker ...	435	moulder, sole ...	414	mounter (glass) ...	138
moulder (abrasive wheels) ...	096	moulder, spare hand ...	279	mounter (glass) ...	138
moulder, aluminium ...	169	moulder, spindle ...	486	mounter, gold ...	288
moulder (ankery) ...	433	moulder, spray ...	180	mounter, gold and silver ...	286
moulder, bell ...	180	moulder, steam ...	159	mounter, gold (gem setting) ...	284
moulder, bench ...	180	moulder, stereo ...	524	mounter, gradstone ...	575
moulder (biscuits) ...	433	moulder, stiffener ...	414	mounter, hair ...	408
moulder (blast furnace) ...	279	moulder, stamp ...	180	mounter, half-tone process ...	548
moulder, bottle ...	125	moulder (sweets) ...	435	mounter, harness ...	398
moulder (bottle caps) ...	559	moulder, tobacco (hand) ...	468	mounter, hollow-ware (earthenware) ...	208
moulder, brass ...	180	moulder, tobacco (metal) ...	468	mounter, hollow-ware (metal) ...	255
moulder (bricks) ...	162	moulder, tin (brass) ...	180	mounter (masonry) ...	946
moulder, bronze ...	180	moulder, tyre ...	602	mounter, bar ...	548
moulder, cake ...	159	moulder, wax (electro) ...	090	mounter, jacquard harness ...	398
moulder, candle ...	158	moulder, whiting ...	486	mounter, jeweller's ...	264
moulder (candles) ...	158	moulder, wood ...	486	mounter, robbing ...	288
moulder (candles — press-worker) ...	159	moulder's assistant ...	183	mounter, kettle (hollow-ware) ...	278
moulder, carbon ...	639	moulder's black maker ...	639	mounter, lens ...	322
moulder, casting pit (iron works) ...	279	moulder's help ...	183	mounter (lens) ...	949
moulder (cellulose) ...	619	moulder's labourer ...	183	mounter, loom ...	210
moulder, chair ...	180	moulder's sawyer ...	183	mounter, lustre ...	138
moulder, charge (explosive) ...	146	mould filler, gold ball ...	210	mounter, machine ...	348
moulder, chocolate ...	135	mould fitter, bottle ...	210	mounter, mechanical barometer ...	322
moulder, cigar ...	468	mould fitter (iron or steel foundry) ...	183	mounter (metallic bedsteads) ...	278
moulder, clay tobacco pipe ...	118	mould greaser ...	279	mounter, net ...	396
moulder, clot ...	119	moulding checker ...	499	mounter, oak ...	286
moulder, compo ...	485	moulding machine attendant ...	449	mounter, pattern ...	559
moulder (compound cake) ...	159	moulding machine hand ...	486	mounter, pattern card ...	550
moulder, confectionery ...	435	moulding machine minder ...	433	mounter, perambulator ...	658
moulder, connection ...	180	moulding machinist, vertical spindle ...	499	mounter (photography) ...	327
moulder, core ...	180	moulding machinist (wood) ...	486	mounter, picture ...	969
moulder, counter ...	414	moulding mill machinist ...	486	mounter, picture frame ...	465
moulder (crops) ...	096	moulding whittener (furniture) ...	599	mounter, pillar (metallic bedsteads) ...	278
moulder, cream (chocolate) ...	435	mould maker (artificial flowers) ...	689	mounter, pipe ...	268
moulder, crest ...	162	mould maker (artificial teeth) ...	230	mounter, plan ...	548
moulder, cycle tyre ...	602	mould maker, blue ...	180	mounter, platinium ...	284
moulder, dental ...	118	mould maker, brass ...	278	mounter (printer's) ...	548
moulder, dry sand ...	180	mould maker (bricks, tiles) ...	278	mounter, print (lithographer's) ...	548
moulder, ebomite ...	602	mould maker, butter ...	499	mounter, process engraving ...	546
moulder (explosives) ...	146	mould maker, dandy roll ...	278	mounter, process engraving ...	546
moulder, freelay ...	103	mould maker (foundry) ...	180	mounter, pump ...	889
moulder, floor ...	435	mould maker (glass) ...	278	mounter (quarrels) ...	689
moulder, foundant ...	180	mould maker, gold beater's ...	338	mounter (rubber stamp making) ...	606
moulder, fork ...	180			mounter, ruby ...	284

Code Number.	Code Number.	Code Number.			
mountain, acchard ...	278	mountain, burner ...	124	nail model maker ...	480
mountain, set ...	288	mountain, cleaner ...	143	nail moulder ...	180
mountain, show card ...	548	mountain, ammonia maker ...	143	nail pattern maker ...	278
mountain, silver ...	288	mountain, ammonia man ...	143	nail pointer, wrought ...	254
mountain (silver and plate) ...	288	mountain, seed man ...	143	nail presser ...	278
mountain (electrotyping) ...	548	mountain, grower ...	018	nail ranker, wrought ...	394
mountain, stick ...	288	mountain, saws ...	018	nail cropper ...	394
mountain, switchboard ...	318	mountain, turner ...	018	naphtha stiller ...	142
mountain, sword ...	228	mountain, bell filter ...	278	naphthalene maker ...	143
mountain, telegraph instru-		mountain, conductor (theatre,		naphthalene man ...	143
ment) ...	309	ment) ...	386	naphthalene plant man ...	143
mountain, thermometer ...	322	mountain, director (theatre,	386	naphthalene refiner ...	143
mountain, three colour process	348	mountain, instrument maker,	386	naphthalene still ...	142
mountain, tint card ...	559	mountain, brass ...	648	naphthalene stiller ...	142
mountain, tortoiseshell ...	318	mountain, string maker ...	688	naphthalene stiller ...	142
mountain, transferer ...	318	mountain, case ...	688	naphthalene stiller ...	142
mountain (vehicle building) 475-6		mountain, solder ...	548	naphthalene stiller ...	142
mountain (vehicle fitting) ...	210	mountain, hall artist ...	886	naphthalene stiller ...	142
mountain, wheel ...	324	mountain, musician ...	886	naphthalene stiller ...	142
mountain, wheel and axle ...	278	mountain, music maker (barral organs)	886	naphthalene stiller ...	142
mountain, whip ...	278	mountain, printer ...	529	naphthalene stiller ...	142
mountain, wire ...	311	mountain, rope maker ...	529	naphthalene stiller ...	142
mountain (wood wind instru-		mountain, steel ...	529	naphthalene stiller ...	142
ment) ...	648	mountain, wire drawer ...	529	naphthalene stiller ...	142
mounts and finisher (wood		mountain, tin ...	529	naphthalene stiller ...	142
mounts and instruments) ...	648	mountain, tin ...	529	naphthalene stiller ...	142
mount, glider ...	538	mountain, tin ...	529	naphthalene stiller ...	142
mounting, forger ...	190	mountain, tin ...	529	naphthalene stiller ...	142
mount, maker, gold ...	234	mountain, tin ...	529	naphthalene stiller ...	142
mount, maker, iron ...	322	mountain, tin ...	529	naphthalene stiller ...	142
mount, maker (picture) ...	558	mountain, tin ...	529	naphthalene stiller ...	142
mount, maker, pipe ...	287	mountain, tin ...	529	naphthalene stiller ...	142
mount, maker, silver ...	287	mountain, tin ...	529	naphthalene stiller ...	142
mount, maker, stick ...	428	mountain, tin ...	529	naphthalene stiller ...	142
mount, maker, wire ...	428	mountain, tin ...	529	naphthalene stiller ...	142
mouse ...	737	mountain, tin ...	529	naphthalene stiller ...	142
mouse, officer's ...	737	mountain, tin ...	529	naphthalene stiller ...	142
mouthpiece, bender (pipe) ...	603	mountain, tin ...	529	naphthalene stiller ...	142
mouthpiece, cutter, briar ...	608	mountain, tin ...	529	naphthalene stiller ...	142
mouthpiece, cutter (wood wind		mountain, tin ...	529	naphthalene stiller ...	142
instruments) ...	406	mountain, tin ...	529	naphthalene stiller ...	142
mouthpiece, driller (pipes) ...	406	mountain, tin ...	529	naphthalene stiller ...	142
mouthpiece, fitter (bentonite) ...	406	mountain, tin ...	529	naphthalene stiller ...	142
mouthpiece, maker ...	559	mountain, tin ...	529	naphthalene stiller ...	142
mouthpiece, polisher ...	608	mountain, tin ...	529	naphthalene stiller ...	142
mouthpiece, turner, briar		mountain, tin ...	529	naphthalene stiller ...	142
(vulcanite) ...	900	mountain, tin ...	529	naphthalene stiller ...	142
mouthpiece, turner (pipes) ...	608	mountain, tin ...	529	naphthalene stiller ...	142
movement, maker, aneroid		mountain, tin ...	529	naphthalene stiller ...	142
barometer ...	322	mountain, tin ...	529	naphthalene stiller ...	142
movement, maker, chrono-		mountain, tin ...	529	naphthalene stiller ...	142
meter ...	324	mountain, tin ...	529	naphthalene stiller ...	142
movement, maker (clock		mountain, tin ...	529	naphthalene stiller ...	142
watchmaking) ...	324	mountain, tin ...	529	naphthalene stiller ...	142
movement, maker, clock ...	324	mountain, tin ...	529	naphthalene stiller ...	142
movement, maker, watch ...	324	mountain, tin ...	529	naphthalene stiller ...	142
mower, lawn ...	095	mountain, tin ...	529	naphthalene stiller ...	142
Mrs. Shifter ...	365	mountain, tin ...	529	naphthalene stiller ...	142
MS. machine operator ...	419	mountain, tin ...	529	naphthalene stiller ...	142
mufter (glass works) ...	159	mountain, tin ...	529	naphthalene stiller ...	142
mufter-coat ...	370	mountain, tin ...	529	naphthalene stiller ...	142
mufter (salt works) ...	099	mountain, tin ...	529	naphthalene stiller ...	142
mufterman (patent fuel)		mountain, tin ...	529	naphthalene stiller ...	142
mufterman (stone mine or		mountain, tin ...	529	naphthalene stiller ...	142
quarry) ...	072	mountain, tin ...	529	naphthalene stiller ...	142
mufter roller ...	178	mountain, tin ...	529	naphthalene stiller ...	142
mufterguard maker (celluloid)		mountain, tin ...	529	naphthalene stiller ...	142
mufter baker ...		mountain, tin ...	529	naphthalene stiller ...	142
mufter bowl maker ...		mountain, tin ...	529	naphthalene stiller ...	142
mufter maker (baker) ...		mountain, tin ...	529	naphthalene stiller ...	142
mufter maker (pottery) ...		mountain, tin ...	529	naphthalene stiller ...	142
mufter turner ...		mountain, tin ...	529	naphthalene stiller ...	142
mufter bricklayer ...		mountain, tin ...	529	naphthalene stiller ...	142
mufter builder ...		mountain, tin ...	529	naphthalene stiller ...	142
mufter feeder ...		mountain, tin ...	529	naphthalene stiller ...	142
mufter hand ...		mountain, tin ...	529	naphthalene stiller ...	142
mufterman (iron foundry) ...		mountain, tin ...	529	naphthalene stiller ...	142
mufterman (jewellery, &c.) ...		mountain, tin ...	529	naphthalene stiller ...	142
mufterman (metal annealer) ...		mountain, tin ...	529	naphthalene stiller ...	142
mufterman (nails) ...		mountain, tin ...	529	naphthalene stiller ...	142
mufter worker ...		mountain, tin ...	529	naphthalene stiller ...	142
mufter filter ...		mountain, tin ...	529	naphthalene stiller ...	142
mufter gaffer ...		mountain, tin ...	529	naphthalene stiller ...	142
mufter head minder ...		mountain, tin ...	529	naphthalene stiller ...	142
mufter man ...		mountain, tin ...	529	naphthalene stiller ...	142
mufter minder ...		mountain, tin ...	529	naphthalene stiller ...	142
mufter overlooker ...		mountain, tin ...	529	naphthalene stiller ...	142
mufter overlocker, spinning ...		mountain, tin ...	529	naphthalene stiller ...	142
mufter piece ...		mountain, tin ...	529	naphthalene stiller ...	142
mufter piece, spinning ...		mountain, tin ...	529	naphthalene stiller ...	142
mufter scavenger ...		mountain, tin ...	529	naphthalene stiller ...	142
mufter spinner ...		mountain, tin ...	529	naphthalene stiller ...	142
mufter spinner, hand ...		mountain, tin ...	529	naphthalene stiller ...	142
mufter stringer ...		mountain, tin ...	529	naphthalene stiller ...	142
mufter tuner ...		mountain, tin ...	529	naphthalene stiller ...	142
mufter tuner, spinning ...		mountain, tin ...	529	naphthalene stiller ...	142
muftergraph operator ...		mountain, tin ...	529	naphthalene stiller ...	142
multiple evaporator man ...		mountain, tin ...	529	naphthalene stiller ...	142
multiple attendant (near-		mountain, tin ...	529	naphthalene stiller ...	142

Code Number.	Code Number.	Code Number.
object glass edger 134	oil boiler, fish 158	oil presser (sponge cloth) ... 399
object glass finisher 138	oil boiler (lurased, &c.) ... 158	oil proofers (metal work) ... 220
object glass maker 138	oil brightener 159	oil purifier (refining) ... 158
oboe maker 643	oil can maker 264	oil purifier (soap) ... 159
obout 886	oil cellar man 159	oil refiner, cod liver ... 158
obscure (electric lamps) ... 319	oilcloth fitter 503	oil refiner, cotton ... 158
obscure (frosted glass) ... 126	oilcloth glazer 504	oil refiner, engine ... 158
obscurer, loading (omnibus, tramway) 714	oil colour printer ... 503	oil refiner, medicinal ... 158
ochre mixer 076	oil corer dresser 639	oil refiner (mineral oil) ... 142
ochre refiner 146	oil cutter 142	oil refiner (waste or waste) ... 159
oculogen man 143	oil dustifier 632	oil refinery floor man ... 279
odd boy 929	oil ed table corer printer ... 143	oil separator 279
oddier, beetler's 399	oil engine fitter 210	oil sheet maker 608
oddier (finishing) 399	offer, sale 709	oil sheet repairer 418
odd filer (cycles) 233	oilier, hoggy 279	oilskin dresser 428
odd maid 960	oilier, boggy 279	oilskin machinist 419
oddman, bank 119	oilier (canvas, oilskin, &c.) ... 279	oil stillman 142
oddman, biscuit 042	iler, ear 279	oilstone cutter 576
oddman, collier 042	oilier, seagird mill 047	oilstone maker 575
oddman (farm) 024	oilier (railway) 047	oilstone maker, Turkey ... 575
oddman (gas works) 099	oilier (tiles) 279	oil tank driver (horse) ... 719
oddman, glass 110	oilier, finishing mill ... 279	oil tank driver (motor) ... 720
oddman (glass, &c., oven) ... 110	oilier (gas works) 699	oil warehouseman 720
oddman, tinner 042	oilier (general engineering) ... 279	oil washer 159
oddman (pottery) 929	oilier (iron and steel rolling) ... 279	oil well borer 580
odd man 929	oilier (iron and steel rolling) ... 279	oil wellman 079
odd man (indoor servant) ... 900	oilier, lamp 047	ointment box maker ... 499
oddside man 180	oilier (leather) 385	ointment compounder ... 148
oddwork carter 183	oilier, loom 399	ointment maker 148
odd worker (coal mine) ... 047	oilier, machine 072	old cotton sealer 964
odd worker (cycles) 233	oilier, machinery 399	oleographic printer 529
oddwork farger 190	oilier, mill auger 279	oleo-margarine maker ... 449
oddwork moulder 161	oilier, miller's 099	oleum man 143
offal collector 719	oilier (paper staining) ... 549	Oliver assistant (hammerman's assistant) 279
offal dresser 445	oilier (patent fuel) 049	Oliver assistant (hammerman's assistant) 279
offal finisher 338	oilier, paint 049	Oliver hammerman 190
offal packer 949	oilier (printer's rollers) ... 689	Oliver jumper 190
offal roller 338	oilier (printing machinery) ... 549	Oliver man 190
offal striker 338	oilier, pulley 047	Oliver man, horse mill ... 190
off-beater 119	oilier, rag 399	Oliver smith 119
offenbacher 127	oilier, roller gear and crans ... 279	omicer 119
off-hand man 847	oilier (saw) 279	omnibus cleaner 729
office and looking inspector ... 709	oilier, shear 279	omnibus conductor 724
office attendant (baths) ... 819	oilier, shrove 047	omnibus conductor, railway ... 724
office attendant, call 756	oilier (shipbuilding, &c.) ... 279	omnibus driver, electric ... 720
office attendant, enquiry ... 709	oilier (skin) 399	omnibus driver (horse) ... 718
office attendant, leading lost property 706	oilier, skin 399	omnibus driver (motor) ... 720
office attendant, letter 706	oilier, spindle 399	omnibus driver, motor ... 720
office attendant, lost property ... 706	oilier (stone quarry) 072	omnibus driver, petrol-electric ... 720
office attendant, receiving ... 775	oilier (textile mill) 399	omnibus driver, steam ... 721
office boy 939	oilier (tubes, iron and steel) ... 279	omnibus guard (railway) ... 724
office girl 423	oilier (varnish) 158	omnibus inspector 714
office inspector, head 709	oilier, wool 399	omnibus manager 710
office inspector, receiving ... 700	oilier and beltman 279	omnibus washer 729
office keeper, box 889	oilier and greaser (electricity supply) 699	oncotman (colliery) 044
office keeper (caretaker) ... 921	oilier and greaser (rolling mill) 279	oncotman (metalliferous mine) 044
office keeper, loan 797	oilier and greaser (textile) ... 399	onchedand man 024
office keeper, registry 771	oilier and tipper (patent fuel) ... 099	onion peeler 449
office keeper and inspector (Post Office) 751	oilier of arms (gunsmith's) ... 279	ossetter, assistant 043
office man 706	oil extractor (seed crushing) ... 158	ossetter (blast furnace) ... 279
office orderly 756	oil extractor (waste) 279	ossetter (colliery or shale mine) 043
office porter, despatch 706	oil filler 158	ossetter (night) 043
office porter, lost property ... 706	oil gas engine room attend-ant 950	osy cutter 638
office porter (railway) 706	oil gas filler 950	osy grinder 638
office porter, receiving 706	oil gas foreman 950	osyl cutter 638
office, boarding 731	oil gas ganger (gas works) ... 892	osener, asbestos 362
office (cable ship) 733	oil gas maker 892	osener, bale (breaker machine) ... 362
office, chief 733	oil gas man 892	osener, bale (hand) 399
office, enquiry 714	oil gas operator 892	osener, carpet 392
office, first 733	oil hanker 777	osener, channel 429
office, mail guard 723	oil house foreman 151	osener (footstep) 362
office, party 735	oil house man (seed crushing) ... 399	osener, floor (gas works) ... 639
office, repeater 735	oil leather millman 334	osener, dyed piece 339
office, salvaga 733	oil maker, cod liver 158	osener (filmmongery) 339
office, shipping 733	oil maker, engine 143	osener (felt) 399
office, testing (waterworks) ... 169	oil maker, paraffin 158	osener (flax, hemp and jute) ... 362
office, traffic (aviation) 709	oil man, cotton 158	osener (fountain pen) 608
office, train information ... 733	oil man, engine 158	osener, gold ball mould ... 608
office, Trinity House 733	oil man (engine room—ship) ... 737	osener (hair) 362
office of training ship 737	oil man (retail dealing) ... 770	osener, hair (wig making) ... 426
office's boy (ship) 737	oil melter 159	osener, hoghead 469
office's woman 737	oil miller 159	osener, horn 618
oil-lineman shop assistant ... 914	oil mill slipper 159	osener, hose channel ... 429
oil-litho printer 526	oil mixer 158	osener, lead 669
oil-take keeper 043	oil or fat refiner 158	osener, lid (gas works) ... 362
oil-take lad 043	oil oxidiser (linoleum) ... 158	osener (monid) 183
oilmeter maker 309	oil packer 159	osener, outside channel ... 429
oil and colourman 770	oil pedder 279	osener, syster 929
oil basin maker 639	oil pedder, patent 279	osener, piece 399
oil barrellet 159	oil pad examiner (railway) ... 276	osener, pipe (gas works) ... 699
oil blender (mineral oil) ... 143	oil pan washer 158	
oil blender (varnish, &c.) ... 158	oil presser, mustard bush oil presser (seed crushing) ... 158	
oil blower 156		

	Code Number.		Code Number.		Code Number.
opener, plate	279	operator, monotype	523	ore stamper	279
opener, sheet (wool sorting)	399	operator, monotype keyboard	521	ore sweeper	279
opener, silk (hale)	398	operator, night (Post Office)	576	ore unloader	279
opener (silk waste)	398	operator, oil gas	698	ore washer	556
opener, sole channel	429	operator, photographic	527	ore weigher	279
opener (tinsplate, etc.)	279	operator, photometer	318	ore wheeler	279
opener, waste (machine)	362	operator, plunger machine	532	organ builder (pipe organ)	648
opener, white pine	399	operator, pneumatic (G.P.O.)	769	organ crawler (pipe organ)	648
opener, wool (felt manufacture)	362	operator, press (forging)	190	organ finisher (pipe organ)	648
opener and closer (gas works)	566	operator, press (sheet metal, etc.)	254	organ filter (pipe organ)	648
opener and dresser, pig	448	operator, sand blast (foundry)	259	organist	386
opener and pulper (rabbit skins)	338	operator, sanding machine	238	organist, church	386
opener feeder (cotton)	362	operator, sewing machine	414	organ key maker	486
opener feeder, Crichton	362	operator, sinter (blast furnace)	279	organ painter and decorator	592
opener feeder, rite	362	operator, slab shear	278	oriental stone cutter	638
opener machine	362	operator, sole levelling machine	429	ornamental basket maker	105
opener machine feeder, Crichton	362	operator, standard screw	414	ornamental decorator	564
opener minder	362	operator, steam presser	918	ornamental finisher (terra cotta)	195
opener-out (tinsplate, galvanised sheet manufacture)	279	operator, telegraph	753	ornamental finisher, terra cotta	105
opener scutcher tender	362	operator, telegraph press	619	ornamental iron worker	221
opener (sinter cotton)	362	operator, turn lathe	523	ornamental modeller (terra cotta)	116
opener tender, Crichton	362	operator, typographical	523	ornamental painter	584
open hearth furnaceman	171	operator, wheel press	190	ornamental rock builder	613
opening machine hand	362	operator, wireless	754	ornamental rock worker	613
open seaper	399	operator, wireless telegraph (Post Office)	754	ornamental writer	594
open glass maker	322	operator, wood planing machine	436	ornament decorator, composition	465
open hat fitter	426	operator, ganger (cartridge)	279	ornament, composition	465
open hat spring fitter	409	operator's assistant, cinematograph	887	ornament, (Bour conference)	433
operate artist	535	operator's assistant, monotype	524	ornament, (handkerchiefs)	949
operate artist	535	operator's assistant, monotype	524	ornament, (japaned)	241
operating theatre assistant	529	operator's assistant, monotype	524	ornament, (japaned)	241
operative (Royal Mint)	279	operator's assistant, monotype	524	ornament, (metal articles)	254
operative dyer	391	operator's assistant, monotype	524	ornament, (metallic bedstead)	275
operative printer's assistant	538	operator's assistant, monotype	524	ornament, (pottery)	105
operator, adjustment (sewing machine)	210	operator's assistant, monotype	524	ornament maker, black	638
operator, auto	200	operator's assistant, monotype	524	ornament maker, candle	556
operator, automatic machine	279	operator's assistant, monotype	524	ornament maker, chandelier	221
operator, auto screw machine	279	operator's assistant, monotype	524	ornament maker, fireplace	556
operator, bar auto	200	operator's assistant, monotype	524	ornament maker, harness (leather)	344
operator, barrel	143	operator's assistant, monotype	524	ornament maker, jet	688
operator, binocular	367	operator's assistant, monotype	524	ornament maker, military	426
operator, boring mill	208	operator's assistant, monotype	524	ornament maker, spar and floor spar	638
operator, box office telephone	639	operator's assistant, monotype	524	ornament maker, store	556
operator, brake	433	operator's assistant, monotype	524	ornament maker (wood)	438
operator, briquette mixing machines	639	operator's assistant, monotype	524	ornament, turner, spar and floor spar	688
operator, brush machine	429	operator's assistant, monotype	524	ornament, turner, black	638
operator, Buland	200	operator's assistant, monotype	524	ornament, turner, black	638
operator, bullet trimming	278	operator's assistant, monotype	524	ornament, turner, black	638
operator, Burroughs	633	operator's assistant, monotype	524	ornament, turner, black	638
operator, cable	755	operator's assistant, monotype	524	ornament, turner, black	638
operator, capstan lathe	200	operator's assistant, monotype	524	ornament, turner, black	638
operator, cement gun	581	operator's assistant, monotype	524	ornament, turner, black	638
operator, charger (rolling mill)	278	operator's assistant, monotype	524	ornament, turner, black	638
operator, chiseler	587	operator's assistant, monotype	524	ornament, turner, black	638
operator, cinematograph	587	operator's assistant, monotype	524	ornament, turner, black	638
operator, clock (electric furnace)	171	operator's assistant, monotype	524	ornament, turner, black	638
operator, coating press	254	operator's assistant, monotype	524	ornament, turner, black	638
operator, Connel	414	operator's assistant, monotype	524	ornament, turner, black	638
operator, conveyor (gas works or electric supply)	699	operator's assistant, monotype	524	ornament, turner, black	638
operator, core cutting	279	operator's assistant, monotype	524	ornament, turner, black	638
operator, Crawley	532	operator's assistant, monotype	524	ornament, turner, black	638
operator, dewatering machine	706	operator's assistant, monotype	524	ornament, turner, black	638
operator, electric truck	278	operator's assistant, monotype	524	ornament, turner, black	638
operator, Fortuna machine	414	operator's assistant, monotype	524	ornament, turner, black	638
operator, garnet machine	362	operator's assistant, monotype	524	ornament, turner, black	638
operator, Gisholt lathe	200	operator's assistant, monotype	524	ornament, turner, black	638
operator, half-tone	525	operator's assistant, monotype	524	ornament, turner, black	638
operator, half-tone process	525	operator's assistant, monotype	524	ornament, turner, black	638
operator, hydraulic press	448	operator's assistant, monotype	524	ornament, turner, black	638
operator, (cocoon)	523	operator's assistant, monotype	524	ornament, turner, black	638
operator, inlotype	429	operator's assistant, monotype	524	ornament, turner, black	638
operator, levelling machine	525	operator's assistant, monotype	524	ornament, turner, black	638
operator, linelight	687	operator's assistant, monotype	524	ornament, turner, black	638
operator, line	528	operator's assistant, monotype	524	ornament, turner, black	638
operator, linotype	523	operator's assistant, monotype	524	ornament, turner, black	638
operator, looming machine	368	operator's assistant, monotype	524	ornament, turner, black	638
operator, machine (boots and shoes)	414	operator's assistant, monotype	524	ornament, turner, black	638
operator, machine (machine tool)	290	operator's assistant, monotype	524	ornament, turner, black	638
operator, machine (music rolls)	552	operator's assistant, monotype	524	ornament, turner, black	638
operator, machine (press work)	254	operator's assistant, monotype	524	ornament, turner, black	638
operator, mangle	278	operator's assistant, monotype	524	ornament, turner, black	638
operator, marconi	754	operator's assistant, monotype	524	ornament, turner, black	638
operator, mill	656	operator's assistant, monotype	524	ornament, turner, black	638
operator, mixing (explosives)	199	operator's assistant, monotype	524	ornament, turner, black	638

	Code Number.		Code Number.
outside	718	overlooker, cotton cloth	359
outside assistant	700	overlooker, cotton tippet	356
outside box machines (match boxes)	499	overlooker, dealer (silk)	355
outside fitter-up	498	overlooker, denbling (outside)	355
outside machinery inspector	700	overlooker (denbling, spun- mang)	354
outside machinery superin- tendent	700	overlooker, drawing	353
outside painter	593	overlooker (clothing trades)	401
outside plaster	222	overlooker (dressing room)	358
outside pector	758	overlooker (finishing)	359
outside slacks machinist	758	overlooker, flat (card cloth- ing)	164-169
outside stock broker	732	overlooker, frame (card room)	353
outside channeller	429	overlooker, gamer's	36
outside channel opener	429	overlooker, gilling box	32
outside moulder	414	overlooker (diatographer's)	32
outside runner	414	overlooker, loom (weaving)	354
overworker	024	overlooker, male	356
oval frame maker (not gilt)	473	overlooker (non-metaliferous mine)	071
oval lathe manipulator	486	overlooker (optical glass)	121
oven turner	455	overlooker, paper	518
oven assistant	449	overlooker, paper tabs	531
oven attendant, ore	183	overlooker, piece	359
oven attendant, drying	519	overlooker, potter's	101
oven builder	565	overlooker, power loom	356
oven charger	088	overlooker, rag-house	511
oven feeder	449	overlooker, readers'	355
oven fireman (cement)	092	overlooker, reading	355
oven fireman (ironfoundry)	279	overlooker, ring	353
oven fireman, malleable iron	279	overlooker, scribbling	353
oven fireman (pottery)	109	overlooker, second	340
oven fitter (biscuit factory)	210	overlooker, speed frame	853
oven fireman	081	overlooker, spinning	354
oval labourer, breech (by-pro- duct area)	089	overlooker, spinning mule	354
oven labourer, coke	089	overlooker (textile sorting, etc.)	352
oven labourer (pottery)	119	overlooker, twisting	354
oven levelle	089	overlooker, under (textile mill)	398
oven liner	565	overlooker, under (warehouse)	349
oven loader	089	overlooker (warehouse)	349
oven maker	565	overlooker, warping	355
overman, assistant	449	overlooker (weaving)	356
overman (biscuit baking)	433	overlooker, weaving	356
overman (cables)	319	overlooker, windows'	355
overman, carbon	689	overlooker, winding	355
over man, coke	089	overlooker, wire	303
over man, colouring	143	overman, back (colliery)	041
over man, glaze	069	overman, back (metalliferous mine)	051
over man, gypsum	069	overman, back shift	041
overman (bolts-ware)	279	overman, bank	041
overman (ironfoundry)	279	overman (colliery)	041
overman (japanning and enamelling)	241	overman, deputy (colliery)	041
over man, malleable iron	220	overman, deputy (metalli- ferous mine)	051
over man (pottery)	109	overman, fore (colliery)	041
over man, rouge	092	overman, fore (metalliferous mine)	051
over packer (ironfoundry)	279	overman, haulage	041
over packer, malleable iron	279	overman (metalliferous mine)	051
oven respirer	565	overman, middle shift	051
overman	433	overman, mining	041
overall maker	619	overman, night	041
overhauler (engine, etc.)	210	overman, night shift	041
overhauled, paper	518	overman, sectional	041
overhead line inspector	592	overman, tier	473
overhead lineman	311	overman, tier (gloves)	411
overhead mechanist	417	overseer, assistant (dix and hemp)	398
overhead power inspector	692	overseer, assistant (printing works)	521
overhead power lineman	311	overseer (hookbinders')	521
overhead sewer	417	overseer, card	401
overhead wagon boy (trans- way)	729	overseer (clothing trades)	353
overhead wagon driver (horse)	719	overseer, dozing	354
overhead wagon driver (motor)	720	overseer (finishing)	359
overlooker (curtain)	376	overseer (G.P.O.)	751
overlooker (embroidered fabrics)	429	overseer (hand compositor's or letter press)	519
overlooker (knitted fabrics)	419	overseer (histographer's)	521
overlooking mechanist	376	overseer, machine (letterpress)	521
overlook machinist	419	overseer (metalliferous mine)	071
overlook stibber	419	overseer, rag-house	511
overlooker, assistant (dye)	398	overseer of mail bag appara- tus (Post Office)	751
overlooker, assistant power loom	398	overseer of porter's (Post Office)	751
overlooker, bobbin winders'	355	overseer	041
overlooker, bottle winders'	355	owner (bathing machine)	919
overlooker, card	353	owner, band	738
overlooker (carding combing, etc.)	353	owner, coal	040
overlooker, carding (wool)	353	owner (colliery)	040
overlooker (cement)	091	owner, drifter	009
overlooker, cigarette pack- ing machine	949	owner (metalliferous mine)	070
overlooker, cloth	379	owner (mining)	009
overlooker, (cotton)	379	owner (of fishing boats)	

packbladder	...	...	044
packer, alkali	...	...	145
packer, arsenic	...	...	149
packer, asbestos	...	...	278
packer, azle	...	...	495
packer, bag	...	...	943
packer (baking powder)	...	...	949
packer (biscuits)	...	...	145
packer, bleach	...	...	148
packer, bleaching powder	...	...	145
packer, bolt	...	...	949
packer, cable	...	...	605
packer, case	...	...	949
packer, caustic	...	...	149
packer, cement	...	...	099
packer (chemicals)	...	...	149
packer (china, etc.)	...	...	944
packer, chlorine	...	...	149
packer, chocolate	...	...	949
packer, color	...	...	455
packer (cloth, soles)	...	...	949
packer, cloth	...	...	543
packer (colliery)	...	...	644
packer, cop	...	...	949
packer, cotton spoil	...	...	395
packer, dental rubber	...	...	605
packer, egg	...	...	949
packer, enamel paint	...	...	155
packer, export	...	...	835
packer, felt	...	...	343
packer, flour	...	...	449
packer, foreman (packer)	...	...	949
packer, foreman (warehouse- man)	...	...	540
packer, foreman yarn	...	...	940
packer, foreman (yarn, cloth)	...	...	943
packer, furniture	...	...	945
packer, furniture van	...	...	945
packer, gland (engineering)	...	...	275
packer, gland (railway)	...	...	709
packer (grain milling)	...	...	449
packer (grain milling)	...	...	949
packer, head	...	...	949
packer, hot	...	...	138
packer, hydraulic (engineer- ing works)	...	...	278
packer, hydraulic (textile warehouse)	...	...	945
packer (iron ore mine)	...	...	054
packer, knife	...	...	555
packer, kiln (abrasive wheel emery wheels)	...	...	099
packer, kiln (lime burning)	...	...	092
packer, lamp	...	...	944
packer, leading (railway)	...	...	577
packer, leading (warehouse)	...	...	949
packer, light (felt hat)	...	...	949
packer, lime	...	...	099
packer, malleable iron oven	...	...	275
packer, margarine	...	...	943
packer, mat	...	...	943

	Code Number.		Code Number.		Code Number.
pecker, mashing	943	page (hotel)	960	painter, spring	583
pecker, matrix	276	page (pottery works)	119	painter, table base	639
pecker (moat preserving)	449	page, showroom	726	painter, ter	538
pecker, nail	399	paper (bookbinder's, printer's)	549	painter, tile	108
pecker, oil	949	paper (pottery)	119	painter, tin	108
pecker, off	159	paper, roller	549	painter, toy	582
pecker, oven (ironfoundry)	279	paper (type)	279	painter, tube	599
pecker, paint	159	paper-up, type	279	painter, under glass	108
pecker, plate	945	paper frame hand	374	painter, van	593
pecker, pot	945	pal maker (metal)	264	painter, vehicle	593
pecker, press (paper mill)	519	pal maker, metallic	264	painter (vehicular)	593
pecker, press (textile waste house)	943	pal maker (wood)	477	painter, velvet	383
pecker (printer's rollers)	479	paint boy, counter's	279	painter, wagon	593
pecker (railway)	577	paint brush	241	painter, wheel	593
pecker, railway engine	278	paint brusher	639	painter, wheel chair	593
pecker, rough (felt hats)	949	paint brush finisher	639	painter, wheelwright's	593
pecker, sack	943	paint brush hand	633	painter, wood	562
pecker, shell	149	paint brush maker	633	painter and decorator, organ	632
pecker (shipbuilding)	278	paint brush trimmer	639	painter hand	633
pecker, silk	943	paint brush stamper	639	painter's assistant	599
pecker (slate mine or quarry)	173	paint brush	592	painter's assistant, ship	599
pecker, stone (cellary)	944	painter, bascule	594	painter's brush hand	152
pecker, sulphate of ammonia	149	painter, advertisement	594	painter's cod	591
pecker, tea	949	painter, advertisement drop	594	painter's foreman	599
pecker, tangle	949	painter, curtain	594	painter's labourer	599
pecker, textile	943	painter, air bed	608	painter's rubber	599
pecker (textile warehouse)	943	painter, air cushion	608	paint filler	152
pecker, tobacco machine	469	painter (artificial flowers)	588	paint grinder	152
pecker, top	943	painter, baby car	593	painter hand	633
pecker, truck (hitter-up)	345	painter, bait	639	painting brush maker	633
pecker, varnish	159	painter, bascule	593	painting inspector	700
pecker (wallpaper)	949	painter, bath	592	paint machine girl	146
pecker (warehouse)	949	painter, bath chair	592	paint maker	639
pecker, waste	399	painter (bedsteads)	241	paint maker, anti-rust com-	152
pecker, wheel	279	painter, biscuit	108	position	632
pecker, whiting	969	painter, biscuit	108	paint maker, enamel	152
pecker (wholesale tailoring)	949	painter, bitumastic	599	paint maker, silk	152
pecker, wood	399	painter, blind	594	paint maker, stucco	152
pecker, yarn	399	painter, blotch (roller engrav- ing)	278	paint miller	152
pecker and liner, ship's	278	painter, body (rolling stock)	593	paint miller man	152
pecker and porter	759	painter (boots)	429	paint mixer	152
pecker and porter (Post Office)	759	painter, bottom	429	paint packer	599
pecker and sorter	918	painter, bridge	592	paint packer, enamel	159
pecker-and-stacker (cloths)	949	painter, brush	639	paintress	108
pecker-foreman	949	painter, car (rolling stock)	593	paintress, biscuit	108
pecker-hopper (tinplate)	949	painter, carriage	593	paintress, colour	108
pecker in brown	949	painter, cart	593	paintress, enamel	108
pecker labourer (logs)	949	painter, chains	593	paintress, flower	108
pecker agent	719	painter, coach body	593	paintress, glass	108
pecker filler	719	painter, coach (private car- riage)	593	paintress, majolica	108
pecker filler	949	painter, coach (rolling stock)	593	paintress, tile	108
pecker case liner (sheet metal)	264	painter, colour	593	paintress, underglaze	108
pecker case liner (warehouse)	949	painter, columnar	593	paint sprayer	241
pecker case maker	479	painter, crown	593	paint square	398
pecker case sawyer	461	painter, design	398	painter (corsets)	406
pecker machine attendant, cigarette	949	painter, dial	398	painter, wheel	279
pecker maker, asbestos	398	painter, drum	592	paints blade forger	199
pecker maker, corrugated	559	painter, enamel	108	palette filler	593
pecker maker, engine	608	painter, engine	592	pallet maker	592
pecker maker, rubber	608	painter, engraver's (textile printing)	592	palms maker	592
pecker maker, ship	198	painter, fan	593	palms and needle hand	419
peckmark (pedlar)	777	painter, fishing floats	639	palms	639
peckman (wool sorting)	399	painter, flower	108	palms leaf splitter (straw plant)	429
peck parter	399	painter, furniture	592	palms, wicker	419
peckwall builder	519	painter, gas meter	592	palms boiler	159
peckwall	944	painter, glass	594	palms cleaner (gas works)	639
pad binder	344	painter, glass (stained glass)	133	palms cleaner (seed crushing, oil cake)	159
padding (boots)	429	painter, gold	108	palms cleaner (wood pulp)	519
padding, bottom	429	painter, golf ball	292	palms boat	294
padding (clothing)	404	painter (home)	592	palms cutter (metal)	264
padding (dyer's)	381	painter, house	592	palms cutter (wood)	481
padding (leather)	335	painter, inside (railway car- riage)	592	palms finisher (millboard)	518
padding, heel	429	painter (lamps)	593	palms (carriage, motor bodies)	658
padding, oil	279	painter, leaf and fern	608	palms maker, concrete roof	598
padding, patent oil	399	painter, machine	592	palms maker, fireproof roof	598
padding, stop	399	painter, mail cart	592	palms maker (metal)	264
padding machine tender	381	painter, majolica	593	palms maker (paper staining)	548
padding machine tender	381	painter (matches)	108	palms maker (wood)	491
padding, master	381	painter, meter case	592	palms planer head	499
padding tender	381	painter, ornamental	592	palms feeder	119
paddingman	339	painter, outside (railway car- riage)	593	palms hand (brush making)	633
padding	448	painter, oxide	592	palms hand, filter	633
padding, starch	448	painter, pattern maker's	592	palms hand, hair	633
padding maker	243	painter, perambulator	593	palms hand (jam factory)	436
padding smith	243	painter, petter	593	palms hand (sugar confectionery)	434
pad maker (basket)	472	painter, railway carriage	593	palms hand (sugar refining)	448
pad maker, cricket	688	painter, railway coach	593	palms hand, whisk	633
pad maker, hank	428	painter (roller engraving)	279	palms maker (harmoniums)	734
pad maker, ink	688	painter, rough	592	palms maker (harmoniums)	498
pad maker (saddlery)	344	painter, safe	592	palms maker (pottery)	108
pad maker, stamping	688	painter, shell	592	palms maker, scale	264
pad maker, straw	548	painter, ship	592	palms man, acid	143
pad maker (textile goods)	419	painter, sign	594	palms man (alum cake)	143
page boy	800				
page (cinema)	589				

	Code Number		Code Number		Code Number
pan man, ball	143	paperer, tin (for baker)	443	parcel post porter (G.P.O.)	759
panman (chalk, clay)	074	paperer, tin (packing)	943	parcel post porter (railway)	705
pan man (chemicals)	143	paperer (warehouse)	943	parcels cart lad	723
pan man (copper extraction)	278	paperer (whips)	689	parcels clerk	839
pan man, decomposing (salt cake)	143	paperer-ap, glass	689	parcels inspector	700
pan man (lead)	171	paper examiner (photo- graphic)	688	parcels inspector, travelling	700
pan man (milk factory)	448	paper examiner, stenoid	553	parcel sorter (G.P.O.)	753
panman (paper making)	519	paper finisher	518	parcel sorter (railway)	708
pan man, rectified sulphuric acid	143	paper fitter (printer's)	543	parcels sorting guard	762
panman (restaurant, etc.)	929	paper folder	543	parcels superintendent (trans- way)	714
pan man, salt cake decom- posing	143	paper front maker	543	parcels van driver	719
pan man (seed crushing)	159	paper grinder	553	parcels van lad	723
pan man (soap)	159	paper gunner	543	parcels van man	719
pan man (solid glucose)	440	paper hand (plane hammer)	493	parcels van man, railway	719
pan man (stone grinding)	575	paper hanger	543	parcels rough caster	570
pan man (sugar confectionery)	454	paper hangings designer	518	parcels rough caster	499
pan man (sugar refinand)	440	paper lapper	518	paper, hrim	570
pan man, sulphuric acid	143	paper maker	518	paper, cake	159
pan man (textile bleaching)	380	paper maker, architect's photographic	688	paper, card	279
pan man (textile dyeing)	381	paper maker, cyanotype	688	paper (card setting)	279
pan man (textile finishing)	384	paper maker, enamel	688	paper, edge	429
pan man, vacuum (cereal foods)	443	paper maker, enamel	688	paper, edge tool	276
pan man, vacuum (sugar)	518	paper maker, engineer's photographic	688	paper (embroidery)	429
pan man, wood pulp	518	paper maker, fly	688	paper (finishing)	384
pan mill man (blast furnace)	104	paper maker, glass	552	paper, fore part (books)	409
pan mill washer	278	paper maker, lacod	552	paper, hat	409
pan mixer (explosives)	143	paper maker, manifold	550	paper, heel (boots)	409
pannel maker	344	paper maker, sand	550	paper (leather dressing)	338
panner	466	paper maker, waterproof	518	paper (oil cake)	159
panner, tobacco	466	paper mahler	543	paper, piece sole	429
panner-out (gas works)	696	paper overhauler	518	paper (reaping hooks, etc.)	290
panner-up	139	paper pattern folder	518	paper (rolling mill)	278
pan picker	099	paper pattern meddler	550	paper (saw)	278
pan runner (pig iron)	278	paper plastering machine operator	553	paper, scyda	280
panside man (soap works)	159	paper preparer (artificial silk)	149	paper, seam (boots)	429
panside man (textile bleach- ing)	380	paper presser	949	paper (seal)	159
panside man (textile dyeing)	381	paper pulper	519	paper, wheel	279
pan smith, copper	227	paper puncher	552	parian coter	195
pan smith, sale	190	paper ruler (band, machine)	553	parian marble maker	105
pan smith (salt works)	190	paper sinter	550	parian maker	124
panstle maker	112	paper slitter	550	parian baker	433
panstle polisher	112	paper sorter, gum	553	park keeper	910
panstle engraver	257	paper sorter (paper mill)	518	park keeper, deer	910
panstographer (embroidery)	407	paper sorter (wallpaper)	540	park labourer	970
panstographer (lace)	376	paper sorter (waste)	994	parlourmaid	900
panstographer (textile print- ing)	257	paper stainer	543	parlourmaid, head	900
panstologist	885	paper tube cutter	553	parlourmaid, house	900
pantry boy (bates, etc.)	306	paper tube jobber	551	parquet block cutter	481
pantry boy (on ship)	737	paper tube machine man	551	parquet flooring cutter	481
pantry maid	900	paper tube machine tacker	551	parquet flooring maker	498
pantry man	900	paper tube maker	551	parquet floor layer	639
pantry steward	737	paper tube overlooker	551	parquet layer	473
pan washer	159	paper varnisher	551	parquetry engraver	473
pan washer, oil	159	paper walter	543	parquetry inlayer	473
pan washer (glass)	139	paper maché hotterman	558	parquet, bank (carpets)	399
pan work (concertinas)	436	paper maché dryer	558	parter, pack	519
pan work hand	434	paper maché hand	558	parter (paper mill)	519
paper bag feeder	553	paper maché hner	558	parter (saw)	362
paper bag maker	553	paper maché mixer	558	parter, sine	519
paper bag printer	553	paper maché moulder	558	part finisher (piano-fitting)	473
paper bag maker	553	paper maché worker	558	part finisher (piano-sand- papering)	499
paper bag stringer	553	paraffin attendant	143	parting maker	428
paper bind maker	558	paraffin oil maker	143	partition maker, breeze con- crete	096
paper cap or hat maker	550	paraffin oil refiner	143	partition maker, sliding	474
paper cementer (paper goods)	558	paragon frame cutter (um- brella)	278	partition slab finisher	096
paper counter (paper mill)	558	paragon frame roller (um- brella)	178	partition slab maker	098
paper counter (paper skin)	558	parallel rule maker	322	part maker, action (plane)	642
paper counter (photograph- paper)	088	paralol maker	416	part maker, commutator	318
paper coating machine man	518	paralol rule	416	part maker (piano)	473
paper collar maker	558	paralol rule	416	part maker (saw)	419
paper counter (paper mill)	518	paralol rule	416	part maker, tunnel oven	102
paper counter (printer's)	548	paralol rule	416	partmaker, agent	365
paper counter	548	paralol rule	416	partmaker, agent	365
paper cutter	553	paralol rule	416	partmaker, agent	365
paper cut machine operator	553	paralol rule	416	partmaker, agent	365
paper cutter (cable, paper tubes)	553	paralol rule	416	partmaker, agent	365
paper cutter (lithographer's, printer's)	548	paralol rule	416	partmaker, agent	365
paper cutter (pottery designs)	119	paralol rule	416	partmaker, agent	365
paper cutter (stationery)	558	paralol rule	416	partmaker, agent	365
paper embosser	552	paralol rule	416	partmaker, agent	365
paperer (bookbinder's)	552	paralol rule	416	partmaker, agent	365
paperer (cardboard boxes)	552	paralol rule	416	partmaker, agent	365
paperer, chair	493	paralol rule	416	partmaker, agent	365
paperer, clay tobacco pipe	549	paralol rule	416	partmaker, agent	365
paperer, engine barrel	549	paralol rule	416	partmaker, agent	365
paperer, hook-to-gut	349	paralol rule	416	partmaker, agent	365
paperer (lace finishing)	385	paralol rule	416	partmaker, agent	365
paperer (pins)	279	paralol rule	416	partmaker, agent	365
paperer (sand paper)	499	paralol rule	416	partmaker, agent	365
paperer, stick	499	paralol rule	416	partmaker, agent	365

	Code Number.		Code Number.		Code Number.
passenger yard foreman ...	704	patent floor layer (composi- tion) ...	571	pavement maker, venetian (artificial stone) ...	896
passer partout binder ...	558	patent floor layer (wood) ...	498	pavement maker, venetian (mosaic) ...	571
passer partout glider ...	558	patent fuel maker ...	699	paving and extension inspector (waterworks) ...	692
passer partout maker ...	558	patent fuel process man ...	699	paving brick maker ...	102
passer (oakboard boxes) ...	558	patent glider ...	525	paving cutter ...	575
passer (carpet) ...	558	patent glazing filter ...	226	paving dresser ...	575
passer, castings ...	278	patent hand ...	374	paving flag maker ...	898
passer, cigar ...	468	patent hand ...	374	paving tile maker ...	102
passer, cloth ...	379	patent oil padder ...	279	pavior ...	579
passer (clothing trades) ...	401	patent rib top maker ...	374	pavior, asphalt ...	579
passer (cutlery) ...	469	patent roofing glider ...	226	pavior, bag ...	579
passer, first ...	174	patent slab finisher ...	698	pavior, foreman ...	571
passer, garment ...	401	patent slab knocker-out ...	598	pavior, mosaic tile ...	579
passer (iron foundry) ...	278	patent slab maker ...	698	pavior, sett ...	579
passer, piece ...	379	patent slab moulder ...	698	pavior, stone and flag ...	579
passer, proof (ditch) ...	540	patent still man ...	454	pavior, street ...	579
passer, rag ...	961	patent stone finisher ...	698	pavior, tar ...	579
passer (rolling mill) ...	178	patent stone maker ...	198	pavior, wood ...	579
passer, sample (steel manufac- ture) ...	278	patent turner ...	429	pavior's ganger ...	561
passer, second ...	178	patent twister (doubling) ...	386	pavior's laborer ...	561
passer (textile mill) ...	379	patent twister (twisting-in) ...	386	pawnbroker ...	797
passer (waste materials) ...	964	patent welder ...	367	pay clerk ...	939
passer-out ...	278	pat maker (cement) ...	198	paying cashier ...	939
passer to bench (iron and steel rolling) ...	278	pat man (cement) ...	699	payman, day's ...	666
pasteboard maker ...	519	patrol (Automobile Association or Royal Automobile Club) ...	729	pea and pie vendor ...	777
paste filter (boots) ...	429	patrol, cyclist ...	729	pecker ...	399
paste hand ...	435	patrol (factory or works) ...	729	peck picker (grain milling) ...	443
paste lead foreman ...	691	patrol, motor ...	729	peck picker (on farm) ...	443
paste lead labourer ...	699	patrol, motor cyclist ...	729	pearl barley machine minder ...	432
paste lead mixer ...	699	patron book maker ...	534	pearl barley maker ...	618
paste maker (adhesives) ...	159	patron card beveller ...	534	pearl bar maker ...	618
paste maker, almond ...	435	pattern card maker ...	534	pearl buffer ...	618
paste maker (blowards) ...	435	pattern card maker (textile materials) ...	399	pearl button maker ...	618
paste maker, booster ...	448	pattern card perforator ...	552	pearl card case maker ...	618
paste maker (cork) ...	399	pattern card manager ...	552	pearl carrier (hand, machine) ...	618
paste maker (explosives) ...	148	pattern card trimmer ...	552	pearl cutter ...	618
paste maker (puff pastry) ...	435	pattern case maker ...	552	pearl dodder ...	618
paste maker (textile print- ing) ...	399	pattern cutter (boots) ...	413	pearl dryer ...	618
paste mixer (accumulator plates) ...	318	pattern cutter (clothing) ...	413	pearl fluter ...	618
paste mixer (cordite) ...	148	pattern cutter, corset ...	402	pearl glazer ...	618
paste mixer (accumulator) ...	302	pattern cutter, garment ...	402	pearl grinder ...	618
paste, accumulator ...	302	pattern cutter (jacquard card) ...	398	pearl handle borer ...	618
paste (bake-house) ...	435	pattern designer (printer's) ...	398	pearl handle cutter ...	618
paste, blower ...	448	pattern dresser (making-up) ...	379	pearl lumber ...	619
paste (bookbinder's) ...	540	pattern dresser (mending) ...	379	pearl roller ...	619
paste (books) ...	429	pattern dresser (trinding) ...	367	pearl sawer ...	294
paste, calico ...	399	pattern fitter ...	210	pearl shaver ...	618
paste (card and pasteboard) ...	518	pattern fitter, iron ...	210	pearl splitter ...	618
paste (cardboard boxes) ...	558	pattern fitter, plate ...	210	pearl stringer ...	618
paste (furn) ...	332	pattern girl ...	385	pearl top cutter ...	618
paste (hat) ...	429	pattern hand ...	385	pease-pudding shop keeper ...	911
paste, heel ...	429	pattern keeper ...	941	pea sheller ...	448
paste (lamp) ...	319	pattern keeper, smith's ...	941	pea shop keeper ...	911
paste, mica ...	304	peilsma maker (artificial flowers) ...	688	pea splitter ...	448
paste (pattern cards) ...	399	pattern maker (cloze) ...	415	peat cutter ...	448
paste, secondary battery ...	302	pattern maker, dress ...	558	peat digger ...	638
paste, sheet (card and paste- board) ...	519	pattern maker, engineer's ...	480	peat moss litter worker (col- lector) ...	638
paste, sheet (visiting do- cards) ...	558	pattern maker (jacquard cards) ...	398	peat moss litter worker (pe- rator) ...	638
paste, sock ...	429	pattern maker (making-up) ...	943	pebble cutter ...	638
paste, storage battery ...	302	pattern maker (metal) ...	278	pebble grinder ...	638
paste (textile finishing) ...	399	pattern maker, metal ...	278	pedal feet maker (piano) ...	545
paste's trimmer ...	302	pattern maker, nail ...	478	pedalling maker (piano) ...	545
paste strainer (liquorice) ...	435	pattern maker (pottery) ...	118	pedlar ...	777
paste topper ...	949	pattern maker (precious metals) ...	267	pedlar, street ...	777
pasteurizer, milk ...	448	pattern maker (wood, scales) ...	480	pedlar's maker ...	322
paste worker, almond ...	435	pattern maker's labourer ...	499	peel brinze ...	448
paste worker, cord ...	148	pattern maker's painter ...	559	peel canister ...	448
pastings and taggings weaver ...	379	pattern man (tailor's) ...	428	peel cooker ...	448
pastry maid ...	900	pattern man (textile mill) ...	358	peel cutter, candied ...	448
patches, bag ...	417	pattern modeller, paper ...	558	peeler (basket making) ...	497
patches, boiler ...	222	pattern modeller (paper pat- terns) ...	558	peeler, log (match boxes) ...	448
patches (bottle making) ...	222	pattern moulder ...	180	peeler, onion ...	448
patches (boot, shoe) ...	412	pattern moulder ...	180	peeler, orange ...	448
patches (lithography) ...	548	pattern room man ...	398	peeler, oler ...	448
patches, rail (iron and steel rolling) ...	979	pattern room worker (wall- paper) ...	534	peeler, rad ...	499
patches, rector ...	565	pattern secker ...	279	peeler, rush ...	499
patches, sack ...	417	pattern setter ...	398	peeler, skillet ...	448
patches (sack, bag) ...	417	pattern shop foreman ...	471	peeler, split ...	448
patches, transfer ...	528	pattern storekeeper ...	941	peeler, twig ...	448
patches (welder) ...	249	pattern varnisher ...	599	peeler, willow ...	448
patch worker ...	249	pattern warper ...	367	peeling machine attendant (match boxes) ...	486
patent agent ...	771	pattern warper ...	367	peel pulper (lemons) ...	448
patent breaker ...	771	pattern weaver ...	379	peel syrup boiler ...	436
patent doffer ...	365	pattern hand (lead, extrac- tion) ...	578	pegger, bobbin ...	399
patent doffing frame spinner ...	365	pattern light glazier ...	268	pegger (books) ...	429
patent dresser ...	363	pavement maker, mosaic ...	571	pegger, card ...	399
patent dressing machine minder ...	363			pegger, dobby ...	399
patenter, wire ...	238				
patent fattener ...	279				

	Code Number		Code Number		Code Number
pegger, foreman	359	performer, card (stationery)	552	photographic finisher	527
pegger, fustian	364	performer (embroidery)	529	photographic operator	527
pegger, lag	398	performer (felt hats)	429	photographic operator, colli- type	526
pegger (loom)	398	perfector (glass)	138	photographic paper maker, architect's	688
pegger, loom	398	perfector (gloves)	429	photographic paper maker, engineer's	688
pegger, velvet	384	perfector, Jacquard	396	photographic printer	527
pegger (velvet, fustian)	384	perfector (metal)	254	photographic process opera- tor	526
pegger, wood	399	perfector, pattern card	552	photogravure carbon printer	542
pegger-on (dyeing)	399	perfector, stamp	552	photogravure etcher	526
pegging-up (shirts)	429	perfector (textile cards)	396	photogravure hand plate printer	529
pegging machine minder	364	perfector minder	527	photogravure machine printer	529
pegging machine	364	perfume compounder	140	photogravure studio operator	526
pegging machine	364	perfumer (distilling)	143	photo-litho operator	526
pegging machine	364	perfumer (retail dealing)	770	photo-litho process printer	526
pegging machine	364	perfumer (soap)	159	photometer hand	318
peggy maker	496	perfumery maker	148	photometer operator	318
peg maker, boot	499	perforator	745	photo-operator (lithographer)	526
peg maker (boots)	499	perforator labourer	745	photo-printer, engraver's	544
peg maker (casks)	499	permanent way engineer	714	phototype printer	544
peg maker, clothes	495	permanent way fitter	210	photologist	899
peg maker, creel (textile machinery)	499	permanent way foreman (rail- way)	561	planet	898
peg maker, shuttle	499	permanent way inspector, assistant district	714	plane action wood working machine	486
peg maker, tent	499	permanent way inspector, assistant divisional	714	plane bracket maker	496
peg maker, wood	499	permanent way inspector, divisional (tramways)	714	plane key out, ivory	618
pegman (rolling mill)	279	permanent way inspector, divisional (tramways)	714	plane key maker, ivory	618
pellet maker (sugar)	435	permanent way inspector (railway)	700	plane packer	945
pellet	444	permanent way inspector (tramways)	714	plane puncher	396
pelt sorter (sheepskins)	338	permanent way labourer (con- tractor's navy)	581	plane steel maker	473
pelt splitter	338	permanent way labourer (maintenance underman)	577	plane string maker	688
pencil case maker (gold and silver)	284	permanent way man (rail- way)	577	plane tinner	643
pencil (for cutter)	108	permanent way smith	196	plane worker	638
pencil, potter	108	permanent way superinten- dent (tramways)	714	piece maker	648
pencil (pottery)	108	permutation lock maker	243	pick carrier (coal mine)	647
pencil (textile mill)	399	perpetual machine hand	344	pick carrier (metal mine)	654
pencil maker, camel hair	633	perquisitor	428	pick driver	150
pencil maker, hair	633	perryman	448	picker, almond	518
pencil maker, lead	658	pesse and mortar maker, stone	575	picker, bag (cotton room)	399
pencil maker, slate	576	petrifying liquid (paint) maker	150	picker, bark	499
pencil mill worker	633	petrol can maker	254	picker, basket	472
pendulum maker	328	petrol can sealer	949	picker, bat (blast furnace)	279
pendulum spring maker	324	petrol can tester	279	picker, bat (coal mine)	649
penholder maker (wood)	486	petrol-electric omnibus driver	729	picker, beam	496
pen knife cutter	228	petroleum oil maker	142	picker, blue line lime	399
pen knife holder	228	petroleum rectifier	142	picker, bobbin (milk spinning)	399
pen knife setter-in	228	petroleum reiner	142	picker, bone (preserved meat)	449
pen maker, fountain	608	petrol ferry driver (motor)	729	picker, brass	648
pen maker, gold	296	petrol man (omnibus)	729	picker, brass	648
pen maker, gold nib	296	petrol rectifier	142	picker, brass	648
pen maker, hair	633	petrol refiner	142	picker, brass	648
pennyhole keeper	962	Pettitwell minder	384	picker, brass	648
pen steel roller	178	petty chapman	777	picker, brass	648
penstock keeper	625	petty officer	735	picker, brass	648
pepper grinder	448	petty officer	735	picker, brass	648
pepper maker	448	petty officer	735	picker, brass	648
perambulator assembler	658	petty officer	735	picker, brass	648
perambulator body maker	475-6	petty officer	735	picker, brass	648
perambulator cold smith	278	petty officer	735	picker, brass	648
perambulator fire smith	190	petty officer	735	picker, brass	648
perambulator fitter	654	petty officer	735	picker, brass	648
perambulator fitter-up	654	petty officer	735	picker, brass	648
perambulator frame smith	278	petty officer	735	picker, brass	648
perambulator hood and apron maker	658	petty officer	735	picker, brass	648
perambulator hood frame assembler	658	petty officer	735	picker, brass	648
perambulator hood frame maker	278	petty officer	735	picker, brass	648
perambulator hood maker	658	petty officer	735	picker, brass	648
perambulator maker	658	petty officer	735	picker, brass	648
perambulator mounter	658	petty officer	735	picker, brass	648
perambulator painter	598	petty officer	735	picker, brass	648
perambulator smith (cold smith)	278	petty officer	735	picker, brass	648
perambulator smith (fire smith)	190	petty officer	735	picker, brass	648
perambulator trimmer	504	petty officer	735	picker, brass	648
perambulator upholsterer	504	petty officer	735	picker, brass	648
perambulator wheel maker	278	petty officer	735	picker, brass	648
percher, finished	379	petty officer	735	picker, brass	648
percher, fustian finisher	384	petty officer	735	picker, brass	648
percher (fustian finishing)	384	petty officer	735	picker, brass	648
percher, grass	379	petty officer	735	picker, brass	648
percher (leather)	379	petty officer	735	picker, brass	648
percher, mending	379	petty officer	735	picker, brass	648
percher, piece	379	petty officer	735	picker, brass	648
percher (textile)	379	petty officer	735	picker, brass	648
perchlorate worker	143	petty officer	735	picker, brass	648
percussion cap maker	149	petty officer	735	picker, brass	648
percussioner	239	petty officer	735	picker, brass	648
percussion instrument maker performing machine minder (music rolls)	648	petty officer	735	picker, brass	648
perforator (bookbinder's, printer's)	552	petty officer	735	picker, brass	648
perforator (books)	549	petty officer	735	picker, brass	648
perforator (card) (Jacquard)	396	petty officer	735	picker, brass	648

	Code Number.		Code Number.		Code Number.
picker, gum ...	159	picking hand cutter ...	342	piece number ...	399
picker, gum silk ...	389	pickle bottle ...	448	piece opener (cloth) ...	399
picker (gun cotton) ...	148	pickle filler ...	448	piece opener, dyed ...	399
picker, hair ...	539	picker, leaf ...	448	piece opener (glass) ...	138
picker, head ...	399	picker, black ...	250	piece opener, white ...	399
picker, hop ...	604	picker, cloth ...	399	piece overlooker ...	359
picker (horse hair) ...	338	picker, egg ...	449	piece passer ...	379
picker, hydraulic line ...	099	picker, first ...	250	piece peeler ...	379
picker, lap (cardroom) ...	399	picker, first hand ...	250	piece picker ...	379
picker, lap (silk) ...	399	picker (fish curing) ...	449	piece raper (carpets) ...	399
picker, leave ...	379	picker (galvanized sheet) ...	250	piece, belt ...	349
picker, line ...	399	picker (hollow-ware, enamel- ing, etc.) ...	250	piece, big ...	365
picker, loange ...	449	picker (metal) ...	250	piece, billy ...	365
picker, lump ...	399	picker (pickle factory) ...	449	piece, card clothing rubber ...	608
picker, melt ...	449	picker (plated goods) ...	290	piece, cleaner ...	371
picker, metal ...	054	picker, second ...	250	piece, cloth ...	419
picker (metal mine, above ground) ...	056	picker, second hand ...	250	piece, cross ...	365
picker (metal mine, below ground) ...	054	picker, sleeper ...	499	piece, doubler (silk) ...	371
picker (metal works) ...	279	picker, spiral ...	449	piece, doubler (yarn) ...	368
picker, milk ...	449	picker (tannery or leather works) ...	339	piece (electric lamp) ...	371
picker, note ...	519	picker (tar macadam) ...	399	piece, extra ...	365
picker (needles) ...	273	picker (tintplate) ...	250	piece, flax ...	399
picker, nut ...	279	picker, underhand ...	250	piece, gum silk ...	399
picker, oakum ...	399	picker, white ...	250	piece, lap ...	363
picker, ore and metal ...	054	picker (wire) ...	250	piece (leather dressing) ...	338
picker, pan ...	099	picker (wood) ...	361	piece, little (bottom) ...	399
picker, pea (grain milling) ...	449	picker's assistant (galvanized sheet) ...	278	piece, machine ...	371
picker, pea (on farm) ...	038	picker's helper ...	278	piece, male ...	365
picker, piece ...	379	picking girl ...	279	piece, ring ...	365
picker, pin ...	118	pickman ...	047	piece, ring frame ...	365
picker, pocket (copper) ...	149	pick repairer ...	190	piece, rubber ...	608
picker, potato ...	524	pick shaft ginner ...	498	piece, side ...	365
picker (printing works) ...	399	pick sharpener ...	190	piece (silk throwing mill) ...	399
picker, rag (textile mill) ...	399	pick sharper ...	190	piece, soft silk (throwing) ...	399
picker, rag (wetset) ...	364	pickman ...	047	piece, soft silk (winding) ...	371
picker, reel (silk) ...	399	picksmith ...	190	piece, spinner ...	365
picker, rock salt ...	076	pick sorter ...	047	piece, spinning ...	365
picker, roller ...	399	pick stamper ...	190	piece, spinning wheel ...	365
picker (roller engraving and block cutting) ...	257	pick wheeler ...	058	piece, strap (machine belt) ...	343
picker (scrap metal) ...	279	picketter ...	638	piece, swift ...	371
picker, scrap ...	279	pick acid washer ...	143	piece (textile spinning) ...	365
picker, seed ...	013	pickers cleaner ...	599	piece, throwing mill (silk) ...	399
picker, shale ...	054	picture frame hanger ...	495	piece, throwing room ...	399
picker (silk throwing) ...	399	picture frame maker ...	495	piece, throwster's ...	399
picker, silk (silk throwing) ...	399	picture frame moulder ...	495	piece, twist ...	368
picker, slide ...	049	picture frame ...	495	piece, wale (wadding mill) ...	399
picker, slag ...	048	picture frame strainer ...	495	piece-in ...	368
picker, slate (quay) ...	745	picture frame strainer maker ...	495	piece-in ...	365
picker, smudge ...	049	picture liner ...	495	piece roller (carpets) ...	399
picker, still ...	118	picture mount ...	599	piece roller (textile making- up) ...	943
picker (stone) ...	024	picture mounter ...	599	piece-on ...	559
picker, stone (agricultural) ...	024	picture restorer ...	599	piece-on ...	399
picker, stone (coal mine) ...	049	pie baker ...	433	piece-on (clothing) ...	399
picker (stone mine or quarry) ...	072	piece bander (textile finishing) ...	399	piece scouter ...	379
picker, stone (stone dressing) ...	575	piece bleacher ...	399	piece searcher ...	379
picker, stopper ...	459	piece brusher ...	384	piece sewer ...	419
picker, sweeping ...	399	piece bundle ...	343	piece sole parser ...	429
picker, tare (cotton room) ...	399	piece bundle ...	379	piece sorter (examiner) ...	379
picker (textile materials) ...	273	piece carrier ...	399	piece sorter (grey room) ...	399
picker, thimble ...	118	piece cleaner ...	399	piece sorter-out ...	379
picker, thread ...	379	piece colourer ...	361	piece mitcher ...	419
picker, warp (silk) ...	399	piece cooler ...	399	piece taker-in (textile finish- ing, etc.) ...	399
picker (wool) ...	064	piece counter (dyeing) ...	399	piece taker-in (textile wear- ing) ...	340
picker, waste (textile mill) ...	399	piece counter (textile printing) ...	399	piece tomer ...	364
picker, web ...	379	piece cropper ...	384	piece trimmer ...	379
picker, web ...	379	piece cutter ...	384	piece warmer ...	367
picker, winkle ...	519	piece dresser ...	384	piece wigher ...	399
picker (wool felt hats) ...	010	piece dryer ...	384	piecework checker ...	379
picker (wool sorting) ...	399	piece examiner ...	379	piecework clerk ...	539
picker, yarn ...	379	piece folder (textile making-up) ...	943	piecework counter (shipbuild- ing) ...	279
picker, zinc ...	279	piece folder (woolen cloth) ...	384	piecework counter's paint boy ...	279
picker and buffer maker ...	343	piece hanger (woolen dyeing) ...	399	pie maker ...	433
picker and trimmer, ore Pickering cutter (fusian clothing) ...	054	piece hanger (woolen dyeing) ...	399	pie maker, pork ...	433
picker maker ...	403	piece knapper ...	379	pie raiser ...	254
picker maker, buffalo ...	343	piece knitter ...	379	piecer, arms ...	619
picker-off, cold rolls ...	279	piece leader (burning) ...	379	piecer, bottom ...	619
picker on bank ...	074	piece leader (dampening) ...	399	piecer, cork ...	619
picker-out (candied peel) ...	449	piece letterer ...	399	piecer, curly comb ...	254
picker-out (galvanized sheet) ...	279	piece locker (cloth) ...	379	piecer, hilt (sword) ...	278
picker-out (metal works) ...	279	piece locker (fusian, velvet, etc.) ...	379	piecer (jewellery and plate) ...	286
picker rubber ...	519	piece locker (grey cloth) ...	379	piecer (mother of pearl) ...	254
picker scraper (paper mill) ...	519	piece locker (grey cloth) ...	379	piecer (pearl) ...	618
picker scraper (textile mill) ...	399	piece locker (grey cloth) ...	379	piecer (pottery) ...	105
picker-up, cold roll ...	279	piece maker (grey cloth) ...	943	piecer (press stamper) ...	254
picker-up (galvanized sheet) ...	279	piece measurer ...	399	piecer, reel ...	486
picker-up (iron and steel roll- ing) ...	273	piece mender ...	379	piecer, saw (jewellery and plate) ...	286
picker-up (straw plait) ...	429	piece miller ...	394	piecer, saw (metal) ...	221
picker-up (textile mill) ...	399	piece miller ...	394	piecer (seamless steel tubes) ...	379
picker-up (tobacco) ...	469	piecener ...	365	piecer, sword hilt ...	254
picker-up (velvet) ...	379				
pick belt maker ...	499				

	Code Number		Code Number		Code Number
piecer (tube drawing)	216	pilot (railway)	701	pipe docter	251
poore worker	286	pilot, river	733	pipe dresser	183
poor gate keeper	889	pilot apprentice	735	pipe expander, boiler	222
poor gate keeper, pleasure	889	pilot guard	702	pipe ficer	200
poor head man	741	plotman, horse	704	pipe fitter	251
poor labourer	749	pilot man (railway)	731	pipe fitter (blast furnaces)	218
poor man	731	pilot master	731	pipe fitter, boiler	218
poor master	731	pilot shunter	704	pipe fitter, drain	251
poor servant	731	plumber	171	pipe fitter, hot water	251
poor ticket examiner	741	pinch maker	105	pipe fitter (shipbuilding)	251
poor works labourer	581	pump maker (drawood)	609	pipe fitter's labourer, boiler	213
pie vendor	777	pinchore cutter	499	pipe fitter's mate	251
pie attendant	777	pinchore maker	499	pipe fitter's mate	251
pie bed metal carrier	279	pinchore vice	419	pipe founder	180
pie bed moulder	279	pin boy (coal mine)	049	pipe galvaniser	234
pie breaker (blast furnace)	279	pin boy (cotton weaving)	399	pipe hanger	181
pie breaker (foundry)	183	pincher	279	pipe jointer (drainage)	581
pie breaker (puddling)	279	pin cording machinist	407	pipe jointer (locomotive)	251
pie brooder	011	pin cutter (nails)	279	pipe jointer (waterworks and	
pie butcher	443	pin cutter, vice	209	hydraulic power)	278
pie crane-man	950	pin cutting machine attend-		pipe jointer, sprinkler	251
pie feeder	224	ant	279	pipe jumper (gas works)	699
pie filler	279	pin drill, dyer	200	pipe labourer	688
piegery man	624	pin drill, vice	200	pipe layer	047
pie hanger-on	279	pin drill, window	200	pipe layer (contractor's)	581
pie heater	279	pin filler, circle (textile ma-		pipe layer, foreman	361
pie iron breaker (blast		chinery)	278	pipe layer (gas and water	
furnace)	279	pin filer, gill (textile ma-		works)	578
pie iron breaker (puddling)	279	chinery)	278	pipe layer, sanitary	361
pie iron breaker	279	pin filer, beakle (textile ma-		pipe linestian	578
pie iron lifter (blast furnace)	279	chinery)	278	pipe maker (foundry)	184-189
pie iron staker	279	pin filer (textile machinery)	278	pipe maker, air	264
pie iron stocker	279	pin girl	049	pipe maker, clay	118
pie iron tipper	279	pin hand	405	pipe maker, concrete	688
pie iron unloader	279	pin header (artificial teeth)	278	pipe maker, drain	105
pie iron weigher	279	pinion maker	324	pipe maker (earthware)	105
pie killer	279	pinion, sprocket	324	pipe maker, earthenware	105
pie lifter (blast furnace)	443	pinion wire drawer	428	pipe maker (hose)	606
pie lifter (steel works)	279	pinion	428	pipe maker, lead	278
pie lifter-out (blast furnace)	279	pin knobber	279	pipe maker, neerscham	464
pie man	024	pin knobber-out (Bosmer)	279	pipe maker (organ)	264
pie opener and dresser	443	pin machinist	279	pipe maker, sanitary	105
pie scaler	443	pin maker	278	pipe maker, sewerage	105
pie selector	278	pin maker (artificial teeth)	278	pipe maker (tobacco pipes,	
pie stager	443	pin maker, drop (textile)	278	not clay)	688
pie stoker	443	pin maker (guns)	279	pipe maker, wood	498
pie weigher (blast furnace)	279	pin maker, hat (gold and		pipe maker (zinc)	103
pie weigher (puddling furnace)	279	silver)	284	pipeman, brine	079
pie wheeler	047	pin maker (piano)	278	pipeman (brine wells)	079
pie carrier	279	pin maker, roller	324	pipeman (coal mine)	047
pieblast baker	433	pin maker, ruby	324	pipe man (coke ovens)	279
pieblast maker	433	pin maker, split	279	pipeman (metal mine)	054
pie cutter (silk)	042	pin maker (watch, clock)	324	pipe man (on dredger, &c.)	749
pie driver	396	pin maker, wooden knitting		pipe man, stand	279
pie layer	581	pin man, handle	278	pipe moulder	180
pie, bullet	279	pinner, axle	648	pipe moulder, iron	238
pie (blast furnace)	279	pinner (barrel organs)	399	pipe moulder, iron	238
pie, bobbin	399	pinner (bleaching, finishing)		pipe mounter	238
pie, chain making	279	pinner, case	325	pipe mount fixer	238
pie (coupering)	499	pinner (coal mine)	049	pipe mount maker	237
pie, cop	943	pinner (fax and hemp)	396	pipe opener (gas works)	699
pie (glass works)	138	pinner, label	943	pipe paperer, clay tobacco	
pie (grey room)	399	pinner (lamps)	319	pipe pit labourer	123
pie, hot	279	pinner (leather dressing)	336	pipe pit moulder	180
pie (jam making)	449	pinner, lozenge	329	pipe press man	439
pie (jam warehouse)	942	pinner, sheet label	943	pipe press man, lead	278
pie (paper staining)	549	pinner (textile warehouse)		pipe pincer (wood)	499
pie (patent fuel)	099	pinner-on (bleaching, finish-		pipe ranger	578
pie (puddling furnace)	279	ing)	399	pipe repairer (tobacco)	
pie, roving	399	pin picker	110	pipe, confectionery	435
pie, scrap	279	pin placer (bolts, nuts, &c.)	279	pipe, liquorice	435
pie (soap)	159	pin plater	279	pipe, water	047
pie (steel furnace)	279	pin roller	349	pipe setter	100
pie (textile warehouse)	943	pin setter, gill	278	pipe stainer, briar	588
pie, tube	943	pin setter, handle	278	pipe tester (gas)	378
pie (wire works)	278	pin setter (textile machinery)		pipe tester (iron and steel	
pie, yarn (carpets, &c.)	399	pin sheet	279	tubes)	278
pie, yarn (textile warehouse)		pin turner, vice	200	pipe tester (water main lay-	
pie runner (rolling mill)	279	pin turner, window	200	ing)	578
pie and tablet maker	143	pin window (not silk)	367	pipe tester (water works	
pie roller	183	pin window (silk)	371	maintenance)	698
pie roller	318	pipe and boiler coverer	688	pipe track labourer	698
pie roller, scale	260	pipe bender (metallic bed-		pipe teler (gas works)	699
pie roller (watch, clock)	924	steads)	278	pipe tube maker	286
pie roller	047	pipe bender (shipbuilding)		pipe warmer	139
pie roller (metallic bed-		pipe bender's assistant	279	pipe weaver, hair	370
steads)	278	pipe binder	449	pipe welder	190
pillow attendant	706	pipe bowl turner	486	pipe worker, copper	227
pillowcase maker	419	pipe case coverer	688	pipe worker (trimming)	
pillow lace maker	377	pipe case coverer and liner	688	liquid sewer	411
pillot, aerial	752	pipe case finisher	688	pipework	419
pillot, aeroplane	752	pipe case fitter	688	pin barrow boy	399
pillot (art)	752	pipe case liner	688	pin boy	399
pillot, air	752	pipe case maker	688	pincher, welt	367
pillot, aircraft	752	pipe case maker	688	pin turner	488
pillot, canal	733	pipe cutter, tapers	183	pin window (not silk)	
pillot, dock	733	pipe cleaner (gas works)		pin window (silk)	371
pillot (navigator)	733	pipe cleaner, retort	688	pinistricurist	904
		pipe coverer	688	pinistricurist	278
				pinistricurist	335

	Code Number.		Code Number.		Code Number.
pistol stocker	436	pit worker (gypsum, plaster, etc.)	076	plac mounter	548
puton maker (brass musical instruments)	648	pit worker, stonella	076	planner, carpet	502
put bank woman	345	putwright	474	planner, clothes	428
put bottom man	043	putter maker	324	planner, ladders	583
put box mender	852	pyroter	324	planner, skidob	583
put box repairer	852	pyroter, pindon	324	plantation labourer	583
put boy (coal mine)	047	placer, hiecut	109	plant attendant, ash	689
put boy (metal mine)	054	placer (backbender's)	549	plant attendant, auxiliary	950
put boy (other mine or quarry)	076	placer (brick)	109	plant attendant, auxiliary (electricity supply)	954
put blow girl	045	placer, enamel kuh	109	plant attendant, coal	950
put blow labourer	049	placer, glass	109	plant attendant, coke hase	950
put blow lad	049	placer, malleable kiln	109	plant attendant, coke hase (ing glass works)	699
put blow lass	049	placer, pin (bolts, nuts, etc.)	279	plant attendant, electric	954
put carpenter	474	placer (rolling mill)	109	plant attendant, fume	245
pitchblende sorter	056	placin, sanitary	419	plant attendant, motor spirit	142
pitch boiler	581	plain berrmer	419	plant attendant, refrigerating	159
pitch bucket man	099	plain needle worker	419	plant attendant, sulphate	143
pitch cutter (wood or wooted)	395	plain set lace maker	429	plant attendant, tar and lyner (works)	699
pitch digger	099	plait dyer's stringer	366	plant attendant, water softener	699
pitch discharger	099	plaited line maker	366	plant attendant, water softener (ing)	699
pitch distiller	142	plaiter, asbestos	366	planter, forest	016
pitcher, bullet	119	plaiter (bakery ware)	472	planter, tree	016
pitcher (brick works)	119	plaiter (braid and tape)	399	plant furnace plater	222
pitcher (coal mine)	045	plaiter, calico	399	plaque maker	105
pitcher, excavations	324	plaiter (coir yarn)	472	plaster baker	692
pitcher (lemons)	138	plaiter, grass	472	plaster burner	692
pitcher (meat porter)	706	plaiter, reed	472	plaster cart maker	638
pitcher, meat (railway)	706	plaiter, rush	472	plaster chopper	098
pitcher (stone)	581	plaiter, sedge	472	plaster cleaner	098
pitcher, stone	581	plaiter (sawyer)	945	plasterer (artificial stone)	698
pitch getter	142	plaiter (textile warehouse)	348	plasterer (builder's)	567
pitching maker	575	plaster and Finisher (whip)	399	plasterer (coke oven)	039
pitch man (patent fuel)	099	plaster-down (textile mill)	943	plasterer, fibrous	571
pitch-mill man	099	plaster-up (fustian)	943	plasterer, floor	571
pitch mury	149	plating machine minder	943	plasterer (modeller)	638
pitch painter	599	plating straw cutter	429	plasterer's mixer	568
pitch valve man (patent fuel)	099	plating straw drawer	429	plasterer's seeder	638
pitch wheeler	099	plating straw sorter	429	plaster image maker	638
pit cleaner (railway)	706	plait maker, coir	399	plaster mill labourer (cement)	099
pit cleaner (steel works)	279	plait maker (coir yarn)	399	plaster modeller	638
pit foreman	041	plait colourer	528	plaster model maker	638
pit hand (tubers)	043	plan colourist	528	plaster spreader	149
pit haulier	043	plan draughtsman	932	plaster works labourer	099
pit head boy	049	plane assembler	474	plastic presser	105
pithead foreman	041	plane boy	043	plate and roller lad	279
pithead inspector	041	plane cleaner	044	plate and scrap loader	279
pit head labourer	049	plane erector	474	plate batter	279
pit head lass	049	plane grinder	237	plate battener	279
pit head man	049	plane house leader	589	plate bender (boiler making)	222
pit head runner	049	plane house man	589	plate bender (plate mill)	190
pit headman	049	plasma (coal mine)	043	plate bender (ship building)	223
pit heap lad	049	plane man (railway)	043	plate builder	698
pit helper	076	plane man, engine	704	plate builder, micaite	098
pit breakerup	047	planer, axle box	200	plate carter	138
pit labourer, ash	709	planer, bone brush	618	plate carter, lead	138
pit labourer (coal mine)	047	planer, die	200	plate carter, rough	138
pit labourer (leather)	339	planer, flat (carding engine)	200	plate cleaner	929
pit labourer (metal mine)	654	planer, girder	200	plate carter, dry (photo- graphic plates)	688
pit labourer (other mine or quarry)	076	planer, hand	499	plate carter (photographic plates)	688
pit labourer, pipe	183	planer, machine knife	200	plate carter, stencil	138
pit maker	499	planer (metal)	499	plate carter (textile printing)	257
pitman (acetone gas)	953	planer (net machine)	200	plate carter, tangsten	278
pit man, ash	709	planer, plate	200	plate dresser (iron or steel)	237
pitman, assistant	047	planer, plate edge	200	plate drillor	200
pitman (china clay)	047	planer, rail	576	plate dryer (accumulators)	319
pitman (coal mine)	047	planer (plate)	576	plate dryer (photographic)	688
pitman, coke (gas works)	699	planer, slide	576	plate edge planer	280
pitman, foreman	041	planer (stereotype)	524	plate engraver (pantograph)	257
pitman, gas	970	planer, stone	575	plate engraver (precious metals)	283
pitman (gas works)	699	planer, switch and crossing	250	plate examiner	688
pitman (metal mine)	054	planer, wood machining	486	plate filler, machine borer's	633
pit man, shedge	138	planer (wood machine)	486	plate finisher	518
pitman, soaking	171	planer and slotter, wall	486	plate fireman	171
pitman (steel)	278	planer band	499	plate fitter (boiler plates)	222
pitman (tannery or leather works)	333	planer band, panel	486	plate fitter, boot	414
pitman (tannery)	729	plane rider	499	plate former (accumulators)	302
pitman, valve (steel manufac- ture)	278	planer machinist, plate	200	plate former, tungsten	278
pitman drawer	333	plate runner	043	plate furaceman	171
pitman's helper	279	plate walker	044	plate gouger	178
pitprop carrier	745	planing machine attendant	499	plate glass cutter	138
pitprop measurer	749	planing machine labourer	499	plate glass fitter	569
pit prop Sawyer	481	planing machine operator	486	plate glass	518
pit shedman	481	planing machine worker	200	plate guillotine	319
pit side crane man	950	planing machinist (celluloid)	618	plate hand (compositor)	522
pit sinker	580	planing machinist (wood)	486	plate hand (printing machine attendant)	530
pit top foreman	041	planisher (metal)	254	plate heater	639
pitwood carrier	745	planisher (saw)	278	plate holder (leather cloth)	639
pitwood roller-off	745	planisher (silver and plate)	278	plateholder (metal works)	279
pitwood weigher	749	planish borer (piano)	486	plate imposer	522
pit worker (clay, mast pit)	074	planisher (base)	409		

	Code Number.		Code Number.		Code Number.
platelayer	577	plaster (paper mill)	518	plough repairer (trams)	278
platelayer, foreman	561	plaster, pin	279	ploughshare coremaker	180
platelayer, leading (railway)	577	plaster, plant furnace	222	ploughshare fitter	183
plate layer (masonry)	498	plaster, potter's electro	282	ploughshare trimmer	183
plate layer, masonry	498	plaster, roof	226	plough shifter	729
platelayer (mine or quarry)	577	plaster, runner	138	plumber, plumber	408
platelayer (printing works)	522	plaster, saddle tree	278	plumber (wool preparing)	369
platelayer (railway)	577	plaster, scythe	783	plumber and feather man	372
platelayer, railway	577	plaster (sheet iron)	264	plug filler (steel)	278
platelayer, road (tramway)	577	plaster, shell	222	plumber, cotton	367
platelayer foreman	561	plaster, shorn	190	plumber (gas fittings, etc.)	279
plate leveller (boilers and tanks, rolling stock)	278	plaster, silver	232	plumber (meat preserving)	448
plate leveller (ship plates)	222	plaster, stern	282	plumber (sieve grates)	279
plate lock jigsaw	241	plaster, white metal	222	plumber-up (gas works)	695
plate lock key turner	300	plaster and gilder	242	plug maker	371
plate locksmith	243	plaster-down (paper staining)	539	plug maker, sparking	399
plate lock stocker	438	plate repairer	178	plug maker (tobacco)	468
plate maker, accumulator	188	plate roller	178	plumber	407
plate maker, button marking	498	plate roller, copper	173	plug rammer (steel)	278
plate maker, colliery	526	plate-rolling machine attendant	178	plug winder	371
plate maker, dial	324	plate's assistant (boilermaking, etc.)	223	plumber	632
plate maker, dry (photographic plates)	688	plate's assistant (silver and plate)	299	plumber, crabs	180
plate maker, gauge	265	plate's finisher	285	plumber, chemical	242
plate maker, gold	296	plate's helper	223	plumber, sanitary	252
plate maker, gold and silver	613	plate's labourer	223	plumber, ship's	232
plate maker, horn	105	plate's mark boy	279	plumber and gas fitter	232
plate maker (pottery)	105	plate's marker	279	plumber and jointer (electric cables)	311
plate maker, ship	178	plate's polisher	279	plumber and jointer's mate	319
plate maker, silver	296	plate's tackle man	223	plumber's fitter	278
plate maker (sterile)	524	plate's tackle man, shell	223	plumber's foreman	164-169
plate maker, tungsten	278	plate sawyer (accumulators)	319	plumber's labourer	253
plate man (personal service)	900	plate setter (scales)	278	plumber's labourer, chemical	279
plate man (railway catering)	929	plate setter (wire works)	278	plumber's mate	253
plate man (rolling mill)	279	plate sifter	200	plumber machine operator	552
plate manager	279	plate smith	190	plunging machine (meat processing)	448
plate marker	279	plate stockkeeper	941	plush batter-up	384
plate mill dresser	237	plate straightener	278	plush batter-up, silk	394
plate mill gauger	278	plate straightener, iron	278	plush coverer, photo frame	168
plate mill marker	279	plate straightener, saw	222	plush crown sewer	418
plate mill roller	178	plate straightener, ship	278	plush crown sewer	418
plate moulder	180	plate strengthener	278	plush cutter	410
plate moulder, pattern	180	plate stretcher, hydro	222	plush grinder	364
plate feeder	530	plate tester (photographic plates)	618	plush grinder, silk	364
plate layer	530	plate trimmer (accumulators)	338	plush shearer, silk	364
plate machine minder	229	plate trimmer, lead	279	plush worker	619
plate opener	279	plate washer	229	pneumatic caulker	276
plate pattern fitter	216	plate worker	233	pneumatic driver	231
plate planer	200	plate worker, British	227	pneumatic hammer driver	190
plate planer machinist	200	plate worker, dry	638	pneumatic hammer smith	150
plate planing machine attendant	200	plate worker, iron (constructional ironwork)	222	pneumatic hand (player piano)	648
plate polisher (restaurants, etc.)	826	plate worker, iron (sheet iron)	264	pneumatic operator (G.P.O.)	769
plate polisher, tin (lithographic)	546	plate worker, zinc	264	pneumatic rigger	255
plate presser	613	platform and general foreman	705	pneumatic tyre fitter	649
plate printer	529	platform boy	705	pocket blade drop forger	190
plate printer, copper	529	platform foreman (carriers)	716	pocket blade drop stamper	190
plate printer, steel	529	platform foreman (railway)	706	pocket blade fier-out	190
plate printer, agricultural machine	190	platform hand	474	pocket blade forger	190
plate, albat	282	platform inspector	750	pocket blade gaffer	190
plate, beam	222	platform man (electric railway)	706	pocket book maker	546
plate, boiler	222	platform man (steel works)	278	pocket chronometer case maker	325
plate (boiler, gilder, etc.)	222	plating assistant	299	pocket knife cutter	228
plate (bookbinding)	349	phototype printer	527	pocket knife scissor	404
plate, boot last	264	platinum capsule maker	298	pocket man (copper)	149
plate, brass	222	platinum melter	298	pocket picker (copper)	149
plate, bridge	222	platinum moulder	298	point and crossing fitter	218
plate (bronze)	241	platinum refiner	266	point attendant (tramways)	729
plate, close (carringtons, harness, etc.)	278	platinum wire drawer	298	point box man	704
plate (cutlery, etc., forging)	190	player assembler (player piano)	642	point box (tramways)	704
plate, detonator	149	player fitter (player piano)	648	point cleaner (railway)	709
plate (domestic engineering)	222	player mechanic (player piano)	648	point cleaner (tramways)	729
plate, edge tool (nickel)	282	player, professional	699	point cleaner and lampman	706
plate, edge tool (smith)	190	player card cutter	548	pointer (bolts, screws)	279
plate (electro plate, nickel silver)	282	playing card printer	529	pointer, brick	565
plate, foreman	281	pleasure gardens proprietor	911	pointer (brickwork)	565
plate (gun mountings)	222	pleasure pier gate keeper	689	pointer, card needle	237
plate, harness	278	pleater, accordion	428	pointer (clog shoes)	279
plate, heavy	222	pleater (dress)	428	pointer, shoe	367
plate, hoe	190	pleater (paper goods)	559	pointer, drill	237
plate, hot	418	plier minder	266	pointer, fuse chain wire	324
plate, inside	222	plumber	473	pointer (glove)	411
plate, iron	222	plumber-and-checker	473	pointer, glove	411
plate, jolting	222	plodder attendant (margarine)	449	pointer, house	565
plate, last	264	plodding machineman	159	pointer, iridium	298
plate (leather cloth)	638	plough boy	623	pointer (nails, needles)	278
plate, levelling	278	plough chaffer	729	pointer (needle)	237
plate, light	222	plougher-out (boots)	429	pointer (printer's folder)	549
plate, lock	282	plough examiner	714	pointer (printing machine)	530
plate, nickel	282	plough inspector	714	pointer, rod	279
plate, nickel (safety pins)	279	ploughman	623	pointer, sculptor's	574
plate, outside	222	ploughman steward	623	pointer, spindle	237
				pointer, stucco	567

	Code Number.		Code Number.		Code Number.
pointer, thermometer	322	polisher (for shaped diamond tools)	668	polish mixer, boot	153
pointer, tuck	365	polisher, fountain pen	668	polisher for saddler, harness	349
pointer (wire works)	279	polisher, frame (cycles)	236	polished cake maker	425
pointer, wrought nail	278	polisher, french	473	poro-pom man	942
point holder	704	polisher (gem)	638	poro-pom riveter	255
pointing hand	639	polisher, gem	638	poro-pom worker (chipper)	278
point line tender	379	polisher, glass	638	poro-pom worker (smith)	196
point line worker	377	polisher, glove	395	posi cleaner	949
point machine seamer	419	polisher, gold	235	post maker	581
point mander	643	polisher (gramophone records)	649	postman, timber (docks)	745
point roller	709	polisher, hand	215	potter	943
points boy	704	polisher, handle	619	Pontefract cake maker	435
point seamer	419	polisher, hank yarn	398	potpourri sculer	599
points lad	794	polisher (head making)	135	potter	139
pointman and level crossing keeper	704	polisher, hollow-ware	235	pottery (sewiter)	124
pointman (coal mine)	643	polisher, hood	419	poty sticker	139
pointman, ground	704	polisher, horn	719	poty carriage driver	718
pointman (or boy) (mines, quarries, &c.)	704	polisher (hotel, &c.)	629	poty driver (day, gravel pit)	874
poisoner, outdoor	704	polisher, ivory	618	poty driver (coal mine)	643
poisoner, railway	704	polisher, japan	241	poty driver (metal mine)	654
poisoner (tramways)	729	polisher, Japanese metal ware	241	poty driver (pottery works)	119
point splitter (pens)	254	polisher, jewelry	235	poty driver (stone mine or quarry)	672
point stitcher	419	polisher, lathe (metal)	235	poty putter (coal mine)	643
point turner	704	polisher, lathe (silver and plate)	235	poty putter (metal mine)	654
poiser-in, furnace (gas works)	699	polisher (laundry)	918	poty trainer	649
poiser maker	496	polisher (lead pencils)	439	poty maker	458
poise builder	469	polisher (leather)	335	P.O.P. printer	527
poise carrier (linoleum)	639	polisher, leather	335	porcelain filer	278
poise eater (linoleum)	639	polisher, leather goods	349	port butcher	719
poise filter	318	polisher, lens	138	port pie maker	433
poise maker, cornice	426	polisher, lima	238	port dues and rates collector	721
poise maker, tent	426	polisher, linen thread	335	porter	759
poise shifter (tramways)	729	polisher, lithographic plate or stone	549	porter, arcade	929
poise constable, dock	749	polisher, lithographic stone	575	porter, auxiliary (Post Office)	759
poise detective, dock	749	polisher, marble	575	porter, backing-out	759
poise inspector	700	polisher (metal trades)	575	porter, badge	759
poisoner, arcade	329	polisher (metal works)	275	porter, barrow	759
poisoner, crossing	704	polisher (mosaic)	571	porter, basin	706
poisoner, dock	749	polisher, mother of pearl	619	porter, beater's	389
poisoner (private)	963	polisher, mouthpiece (pipes)	698	porter, booking	706
poisoner, private	963	polisher (oled garments)	418	porter, book room	706
poisoner (protecting cross- ing)	704	polisher (optical lens)	119	porter, canal	745
poisoner (railway)	709	polisher, pantile	559	porter, canal boat	745
poisoner, railway (not at level crossing)	709	polisher (paper cartridge cases)	559	porter, captain	706
poisoner, reservoir	963	polisher (pearl)	619	porter, carb	706
poisoner, river	963	polisher (piano keys)	619	porter, cash box	706
poise matron	929	polisher (pianos, harmoniums, organs)	478	porter, cattle	706
poise superintendent	700	polisher, plate	929	porter, cloak room	706
poise examiner (insurance)	919	polisher (plate glass)	929	porter, clothing	706
poise labourer	925	polisher, plaster	285	porter, club	917
poise box hand	949	polisher (proof cloth)	285	porter, coal (hotel, office, &c.)	759
poise chieftain	151	polisher (reed making)	609	porter, coal (railway)	706
poise holder	126	polisher, rice	449	porter, coal (wharf)	706
poise, asbestos	356	polisher, roller (textile print- ing)	238	porter, coke (gas works)	699
poise, ball	238	polisher (saws)	238	porter, collage	917
poise, bellied hall	619	polisher, scaly (shive)	238	porter, contract	745
poise, black	241	polisher, silver	235	porter, corn	745
poise, bobbin (wood)	499	polisher (plate)	576	porter, cotton	745
poise, bone	619	polisher, slate	576	porter, counter	706
poise, bone brush	619	polisher, spoon and fork	245	porter, day (railway)	706
poise (bone, erinsed, &c.)	619	polisher, spring	429	porter, deal (dock)	745
poise, boot	429	polisher, stick	429	porter, deal (timber yard)	759
poise, bottom (boats)	429	polisher, stone	575	porter, delivery	759
poise, brass (foundry)	238	polisher, stone	575	porter, despatch office	706
poise (brass musical in- struments)	238	polisher, stopper (rubber)	609	porter, district relief	706
poise, briar	499	polisher, straw hat	486	porter (dock)	745
poise (bricks, &c.)	118	polisher, tennis racquet	486	porter, dock warehouse	745
poise, brush (leather)	335	polisher (textile)	356	porter, equipment	706
poise (brush-making)	639	polisher, tin plate (litho- grapher's)	549	porter, excess	706
poise, button (bone, horn, &c.)	619	polisher, tortoiseshell	619	porter, fellowship	759
poise, button (metal)	619	polisher, twine	398	porter, fish (dock)	745
poise, case	235	polisher, warp yarn	398	porter, fish (railway)	706
poise, celluloid	619	poise, wire	238	porter, foreman	706
poise (clags)	429	poise (wood)	478	porter, foreman (Post Office)	751
poise, collar	916	poise, wood	478	porter, foreman parcel	706
poise, comb	619	poise (wood heels)	499	porter, front door (railways)	706
poise, croon	238	poise, wood (pencils)	499	porter, furniture	706
poise, cup	238	poise (wood pipe)	499	porter, goods	706
poise, cutlery	238	poise, writing slate	576	porter, grain (dock)	745
poise, diamond	638	poise, yarn	398	porter, grain (railway)	706
poise, emery steel (cycles)	237	poise-out, die	638	porter, hall (hotel, club, &c.)	917
poise (enamelled marble)	575	poise's filter-in	476	porter, hall (railway)	706
poise, enameled	241	poise's stainer	559	porter, head (hospital)	917
poise, engraver's (textile pressing)	238	poise's window	350	porter, head (hotel, club, &c.)	917
poise, felt hat	419	poise's boy	478	porter, head (railway)	706
poise, fiddle	619	poise's cloth cutter	403	porter, head (Post Office)	751
poise (fishing rod)	638	poise's top maker	538	porter, head transfer	706
poise, fishing rod	638	poise maker	159	porter, horse and carriage	706
poise, fishing rod	638	poise maker, french	159	porter, horse box	706
poise (flint glass)	138	poise maker, furniture	159	porter, hospital	929
poise, floor	929	poise maker, stove	699	porter, hotel	917
		poise mixer	159	porter, horse	900

	Code Number.		Code Number.		Code Number.
porter, infirmary	529	porter, signalman	703	pot man, lead oxide	143
porter, iron	706	porter's room attendant	706	pot man, lead press	278
porter, jigger	706	porter's yardman	704	pot man, nickel capsols	278
porter, junior	706	potchilo maker	532	pot man (ore furnaceman)	171
porter, kitchen	900	portcainean maker	345	pot man (pavior's)	580
porter, lamp	706	post master	781	pot man (pub-house)	918
porter, lavatory	706	portress (for commercial firm)	758	pot man (used crushing)	191
porter, lamp room	706	portress (lodgeworker)	963	pot man (steel)	279
porter, leading	706	potress, motor	721	pot man (textile bleaching)	279
porter, leading parcel	706	possession man	969	pot man, white lead oxide	143
porter, left luggage	706	post boy, culinary	758	pot man (zinn smelting fur-	143
porter, letter	706	post boy (glass works)	139	nace)	
porter, licensed	759	post boy (horse rider)	710	pot man's helper (nickel	
porter, light	759	post boy (office)	939	capsols)	
porter, lodge	982	post card bander	949	pot mill feeder	278
porter (lodging)	917	post card colourist	559	pot picker	948
porter, lost luggage	706	post card counter	559	pot presser	278
porter, lost property office	706	post card examiner	558	pot runner (steel works)	278
porter, luggage	706	post card glazer	544	pot setter	443
porter, luggage (railway)	706	post card maker	544	pot shop man	143
porter, luggage room	706	post card printer	529	pot shop worker	143
porter, marine	745	post card trimmer	559	pot skimmer	122
porter, market	759	post card driver	719	pot stacker (jam making)	443
porter, market (railway)	706	post clerk	939	pot stacker (warehouse)	943
porter, meat	759	poster hand	529	pot still man	443
porter, mileage	706	poster writer	544	potter, blast furnace	278
porter, milk	706	poster writer (figewriter)	594	potter (celluloid)	143
porter, mineral	706	post girl	939	potter, clay	143
porter, motor	723	post holder	139	potter, clay tobacco pipe	165
porter, night (hotel, club, etc.)	917	postholder	428	potter (fireclay factories)	103
porter, night (railway)	706	posthouse worker	428	potter (lead extraction)	279
porter, office	706	postilman	718	potter (pottery)	103
porter, out	759	posting master	711	potter (textile finishing)	384
porter, outside	759	posting yard manager	711	potter's assistant	119
porter, parcel	706	postman	753	potter's attendant	219
porter, parcel delivery	706	postman, assistant head	753	potter's die fitter	119
porter, parcel post (G.P.O.)	706	postman, auxiliary	753	potter's electro plater	282
porter, parcel post (railway)	706	postman (glass)	139	potter's fitter	119
porter, post	706	postman, head	751	potter's helper (mine)	119
porter (private residence)	900	postman, private	917	potter's material miller	245
porter, quay	745	postman, rural	751	potter's mechanic	104
porter, quayside	745	post porter, parcel	706	potter's miller	104
porter, railway	706	post porter, parcel (G.P.O.)	759	potter's overlooker	104
porter, railway	706	post porter (railway)	706	potter's penduler	103
porter, receiving office	706	postwoman	753	pottery assistant maker	103
porter, relief	706	postwoman, auxiliary	753	pottery miller	104
porter, relief signal	703	post wrapper gummer	559	pottery millman	104
porter, resident	917	post annaler	109	pottery mould maker	118
porter, riverside	745	post arch man	109	pot tier	948
porter, rolling stock	706	potasher	299	pot washer	970
porter, rag	706	potash extractor	143	pot welder	199
porter, sample	745	potassium chloride worker	143	potter man	399
porter, school	706	potting carrier	745	pouch maker, leather	399
porter, scrap	917	potting cleaner	449	potteries	740
porter, scullery	706	potato cleaner, chip	429	poultry appliance maker	039
porter, senior	706	potato enter	449	poultry attendant	039
porter, ship's	745	potato ganger	034	poultry bay	039
porter, shop	759	potato grower	011	poultry breeder	011
porter, shop parcel	706	potato man, hot	777	poultry dresser	443
porter, shore	759	potato picker	024	poultry farmer	011
porter, sidings	706	potato preserver	448	poultry feeder	039
porter, signal	703	potato riddler	024	poultry man	039
porter, spare man	706	potato roaster	777	poultry manager	039
porter, special station plat-	706	potato setter	024	poultry packer	039
form	706	potato slicer	449	pounce (embroidery patterns)	426
porter, station	917	potato splitter	024	pounce (salt bath)	410
porter, stone	745	pot bank labourer	119	pounder	443
porter, store	759	pot bank worker	119	pourer (brass foundry)	184
porter, stores	917	pot boy (builder's)	758	pourer (iron or steel	
porter, timber	745	pot boy (gas works)	899	foundry)	
porter, timber (dock)	745	pot boy (public-house)	915	pourer (steel manufacture)	278
porter, time-bill office	706	potcherman, esparto grass	516	pour-out, jelly	449
porter, town	759	potcherman (paper)	516	pourer boy	443
porter, train indicator	706	potcherman (rag)	516	powder binder, riveter	057
porter, train label board	706	potcherman, wood pulp	516	powder distributor	941
porter, trucks	759	potcher (paper)	518	powder magazine attendant	941
porter, transfer (railway)	706	pot chipper (glass works)	139	powder makes, baking	443
porter, transfer	706	pot chipper (metal trades)	279	powder maker, bronze	143
porter, traveller's	706	pot coverer	949	powder maker, custard	443
porter, travelling	706	pot filler (glasshouse)	139	powder maker, fulminating	143
porter, warehouse	759	pot maker, casting	103	powder maker, jelly	443
porter, waterside	745	pot maker, chimney	102	powder maker, putty	150
porter, weighbridge	706	pot maker, coffee	264	powder maker, soap	159
porter, wins	745	pot maker (crock)	103	powder maker, tooth	143
porter, wool	399	pot maker, ceramic	103	powder man, bleaching	143
porter, yard	706	pot maker, flower	103	powder man (coal mine)	047
porter at date	917	pot maker, furnace	103	powder man, indiarubber	049
porter bay man (boiler mak-		pot maker, garden	116	powder man, rubber	049
ing, ship building)	221	pot maker, glass	103	powder man (rubber mill)	049
porter-brakeman	702	pot maker, glass maker's	103	powder man (starchopper)	941
porter, carman	719	pot maker, melting	103	powder monkey (metal mine	034
porter, clerk	939	pot maker (mine)	103	powder monkey (stone mine	
porter, driver	719	pot maker, nickel	103	or quartz)	
porter, gateman	704	pot man (alkali)	449	powder puff maker	672
porter-guard	704	pot man (analyzer)	143	powder runner man	561
porter-horseman (shunting)	702	pot man, asphalt	220	powder salesman (metallifer-	
porter, lampman	706	pot man (lead)	143	ous mine)	
porter of the close	962			powder engine man	941
porter, pointman	702			powder engine man	941
porter, searcher	706			powder engine man	941
porter, shunter	704			powder engine man	941

Code Number.		Code Number.		Code Number.	
power forger, blade ...	190	preserver, artificial flowers ...	589	presser, heel (leather) ...	414
power frame worker ...	374	preserver, bird ...	989	presser, heel (rubber) ...	602
power house attendant ...	954	preserver, fern ...	989	presser, hollow-ware ...	105
power house fitter ...	210	preserver, fruit ...	448	presser, lop ...	439
power house man ...	954	preserver, fruit and vegetable ...	448	presser, lorn handles ...	615
power inspector, overhead (electricity) supply ...	692	preserver, meat ...	448	presser, lornery ...	384
power loom harness builder ...	356	preserver, sardine ...	448	presser, lat (metal) ...	190
power loom overlooker ...	356	preserver (skins) ...	338	presser, lat (paper, card- board) ...	518
power loom overlooker, assist- ant ...	358	preserver, timber ...	448	presser, hot (printer's) ...	549
power loom tender ...	370	preserver, vegetable ...	448	presser, hot (rubber) ...	602
power loom tuner ...	356	press agent ...	775	presser, hot (textile finishing) 364	
power loom weaver ...	370	press attendant, filter (margarine) ...	448	presser, hydraulic ...	943
power machine braider ...	398	press attendant, hydraulic (compressed paper) ...	558	presser, gutta-serib ...	602
power machine weaver (fish- ing net) ...	398	press attendant, hydraulic (paga mill) ...	519	presser, jaw (jewellery and plate) 205	
power machinist ...	419	press attendant, painte, colours ...	159	presser, knee (finishing) ...	385
power press hand ...	254	press attendant (sewage dis- posal) ...	970	presser, lead ...	098
power press worker ...	254	press binder ...	970	presser (leather dressing) ...	334
power weaver ...	970	press binder ...	943	presser (leather goods) ...	349
prawn fisherman ...	099	press bandler, delivery room ...	943	presser, lined ...	159
precious stone cutter ...	638	press charginman ...	148	presser, machine (cloth finish- ing) ...	534
precipitator ...	143	press cleaner (rolling mill) ...	279	presser, machine (iron hollow- ware) ...	234
precipitator, cellulose acetate precipitator (copper) ...	149	press cleaner (seed crushing) 159		presser, machine (tailor's) ...	404
precipitator man (copper) ...	149	press clicker (seed crushing) 213		presser, mangle ...	404
precision grinder ...	237	press clicker, ideal ...	413	presser, matrix ...	278
preener (gloria) ...	439	press clipper (press cutting agency) ...	780	presser, metal polish ...	159
preference labourer ...	742	press cloth machinist ...	419	presser, mustard tank-oil ...	254
preparer, accessories ...	919	press cloth mender ...	419	presser, nail ...	448
preparer (artificial silk) ...	648	press cloth washer (sugar raising) ...	449	presser, nuts ...	279
preparer (barrel organs) ...	479	press corrector ...	543	presser, oil (seed crushing) ...	158
preparer (boots) ...	099	press cutter ...	403	presser, oil (sponge cloth) ...	399
preparer, china clay ...	104	press driver, lead ...	789	presser, paper ...	949
preparer, clay ...	429	press driver (steel forging) ...	278	presser, plastic ...	105
preparer, cotton (artificial silk) ...	149	press driver man ...	190	presser, plate ...	613
preparer (cotton doubling) ...	399	pressed brick maker ...	162	presser, pottery ...	185
preparer, cotton (lace) ...	399	pressed glass maker ...	125	presser, record ...	185
preparer (dyeing and cleaning) preparer (electrical apparatus) preparer (flax, hemp breaking) preparer (flax, hemp, jute drawing) ...	929 319 362	presser, snipper ...	194	presser, roling mill ...	940
preparer, glue ...	363	presser, steam (tailor's) ...	512	presser, rubber ...	150
preparer, glue stock ...	158	presser, apron ...	512	presser, rubber beads ...	602
preparer (gold and silver chains) ...	234	presser, artificial stone ...	099	presser, sanitary ...	185
preparer, gold nih ...	234	presser, harm ...	459	presser, scales ...	613
preparer, hat ...	428	presser, belt ...	600	presser, seam (caps, hats) ...	410
preparer, harness ...	344	presser, blouse ...	428	presser, seams (tailor's) ...	404
preparer (hats) ...	428	presser, blue ...	458	presser, seed crushing ...	159
preparer, human hair ...	428	presser, bobbin and end ...	488	presser, shoddy (oil extraction) 159	
preparer (jewellery) ...	298	presser, bobbin (lace) ...	525	presser, shuttle block ...	408
preparer (lace) ...	398	presser (bookbinder's) ...	549	presser, sleeper mill ...	190
preparer (laundry) ...	918	presser (boots, shoes) ...	413	presser, slipper ...	413
preparer (leather belt) ...	343	presser (bricks) ...	402	presser, sludge (sewage dis- posal) ...	970
preparer (leather goods) ...	340	presser, brass ...	109	presser, special ...	404
preparer, line ...	363	presser, buckle ...	405	presser, sponge cloth ...	159
preparer, lithograph ...	188	presser, bundle ...	254	presser, steel ...	395
preparer, lithographic plate or stone ...	540	presser, cake (liquorice) ...	943	presser, steel tyre ...	190
preparer, mould ...	278	presser, cake (seed crushing, etc.) ...	459	presser, stock ...	494
preparer, paper (artificial silk) preparer, pot ...	143 449	presser, cap ...	410	presser, stuff ...	324
preparer, preserved fruit ...	448	presser, carbon ...	639	presser, terra cotta ...	185
preparer (roller chains) ...	275	presser, carbon brush ...	639	presser (textile warehouse) ...	943
preparer, sand ...	183	presser (card and pasteboard) 518		presser, tile ...	115
preparer (silk) ...	393	presser (cards) ...	518	presser, tortoiseshell ...	115
preparer, starch ...	393	presser, cloth ...	352	presser, trower ...	404
preparer (textile printing) ...	399	presser, clothes ...	429	presser, tube ...	276
preparer, train ...	702	presser (clothing) ...	429	presser, under ...	404
preparer, welt ...	414	presser (cloth hats) ...	409	presser, vegetable ...	449
preparer, wick ...	138	presser, cocoa ...	403	presser, wheel ...	518
preparer, yarn ...	396	presser, cord ...	340	presser, wheel disc ...	276
preparer for dyeing ...	399	presser (cordite) ...	453	presser, wheel bobbin end ...	485
preparer for felt sewing ...	414	presser (corsets) ...	446	presser (yarn) ...	453
preparer of collars and wrist bands ...	419	presser, cotton seed ...	456	presser-out (tailor's) ...	404
preparing box minder (wood combing) ...	363	presser, detonator (silver) 159		presser-out (textile warehouse) 943	
preparing hand (flax, hemp breaking) ...	362	presser, die ...	105	presser, operator, steam 918	
preparing hand (flax, hemp, jute drawing) ...	363	presser (dye's and cleaner's) 929		presser-out, carriage ...	254
preparing machine minder (silk) ...	363	presser (felt) ...	384	presser-out, couch ...	254
preparing machinery fitter ...	210	presser (felt hats) ...	404	presser-out, couch ...	254
preparing master (flax) ...	353	presser, final ...	404	press feeder ...	104
prescription assistant ...	138	presser, fishplate ...	404	press filler (pottery) ...	101
preserved fruit preparer ...	448	presser, flat ...	185	press filler, tobacco ...	468
preserve milk maker ...	448	presser, fruit ...	449	press folder ...	385
preserver, animal ...	969	presser, fruit and vegetable ...	449	press girl ...	286
		presser, garment ...	929	press hand (colluloid) ...	618
		presser (glass) ...	125	press hand, draw ...	485
		presser, glass end ...	408	press hand (metal trades) ...	254
		presser, golf ball ...	602	press hand, power ...	254
		presser (gunpowder) ...	148	press hand (silver or plate) ...	208
		presser, hand ...	404	press hand, sinker ...	254
		presser, handle ...	613	press hand, stamping ...	254
		presser, hay ...	404	press hand (steel forge) ...	180
				press hand (sugar refining) ...	448
				press hand (tobacco) ...	468

	Code Number.		Code Number.		Code Number.
press house attendant (sew- age disposal) ...	370	press packer (paper mill) ...	519	printer, Boereloth ...	636
press house man (gunpowder)	148	press packer (textile ware- house) ...	943	printer, gold ...	537
pressing machine minder	334	press reader ...	548	printer, gold and silver ...	537
pressing man ...	549	press reviser ...	548	printer, half-tone process ...	526
press maker ...	155	press rollerman ...	518	printer, hat ...	537
pressman, angle ...	290	press room man (patent fuel)	999	printer, hat tip ...	537
press man (artificial stone) ...	155	press setter ...	384	printer, hat tip gold ...	537
pressman, blacklead ...	158	press slinger worker ...	254	printer, heraldic ...	529
pressman (blue) ...	158	press tender ...	211	printer, house ...	363
pressman, blue ...	158	press tool fitter ...	211	printer, house ...	363
pressman (boots) ...	413	press tool maker ...	211	printer, intercalated ...	529
pressman, bowl (coconut bowls)	638	press tool setter ...	211	printer, label (hat labels) ...	537
pressman (bucks) ...	102	pressure gauge maker ...	322	printer, leather ...	335
pressman, cage (steel crush- ing) ...	158	pressure machine operator ...	414	printer, letterpress ...	529
pressman, calendar bowl ...	638	pressure man (gas works) ...	656	printer, linotype ...	638
pressman, cartridge ...	149	press vulcanizer ...	653	printer, lithographic ...	529
pressman (cattle cake) ...	446	press worker (cartridges) ...	254	printer, machine (paper stamping) ...	536
pressman (celluloid) ...	519	press worker, compo ...	567	printer, machine (textile mill)	383
pressman (celluloid scales) ...	613	press worker, draw ...	254	printer, mat ...	582
pressman, clay ...	154	press worker, fly ...	254	printer, metal ...	526
pressman, clipping ...	279	pressworker, gold and silver ...	236	printer, metal leaf ticket ...	537
pressman (cloths) ...	415	press worker, hand ...	254	printer, music ...	529
pressman, cobalt ...	149	press worker, hydraulic ...	190	printer, photographic ...	529
pressman, cobalt filter ...	149	pressworker (imitation jewel- lery) ...	236	printer, oil colour ...	529
pressman, cobalt washer ...	149	pressworker (jewellery and plata) ...	286	printer, oiled table cover ...	638
pressman, cocoa ...	418	press worker (pottery) ...	104	printer, oblong ...	529
pressman, compo ...	527	press worker, power ...	254	printer, paper bag ...	529
pressman, composition ...	425	press worker, punch ...	254	printer, photographic ...	527
pressman (compound cake) ...	159	press worker, steam ...	254	printer, photograph carbon plate ...	548
pressman, filter (clay slip) ...	104	press worker (textile finishing)	384	printer, photograph machine ...	529
pressman, filter (super re- fining) ...	449	prestidigitateur ...	899	printer, photo-litho process ...	526
pressman, filter (whiting) ...	485	pricker, bobbin ...	486	printer, phototype ...	548
pressman, filter's ...	130	pricker (embroidery) ...	429	printer, plate ...	529
pressman, floor ...	159	pricker (leather goods) ...	348	printer, plate ...	529
pressman (gramophone, &c., records) ...	648	pricker-on ...	449	printer, platinotype ...	527
pressman (gun cotton) ...	148	pricker-up (books) ...	411	printer, photo card ...	527
pressman (gunpowder) ...	148	pricker, sewer (gloves) ...	411	printer, P.O.P. ...	527
pressman, hydraulic (cellu- loid) ...	619	primary battery maker ...	318	printer, post card ...	529
pressman (hydraulic, hosiery finishing) ...	319	primary cell maker ...	318	printer, process ...	529
pressman, hydraulic (Siemens Martin) ...	190	printer, artist's canvas ...	939	printer, sack ...	425
pressman, hydraulic (solid tyres) ...	658	printer, cap (percussion caps)	149	printer, sack, bag ...	429
pressman, India rubber ...	652	printer (cartridges) ...	149	printer (back, bag) ...	429
pressman, lead ...	279	printer, electric (ammunition)	149	printer (bag-going) ...	749
pressman, lead pipe ...	279	printer (foundry labourer)	183	printer (bagging) ...	527
pressman (leather dressing) ...	334	principal hand ...	180	printer, silk (block printing)	537
pressman (litho) ...	543	principal measurer ...	740	printer, silver ...	537
pressman (maize meal) ...	449	principal power engineer (G.P.O.) ...	300	printer, steel plate ...	529
pressman, mangle bowl ...	638	principal receiver of rates and dues ...	731	printer, tapestry (block printing) ...	382
pressman, mica ...	304	principal tub hand ...	180	printer (textiles) ...	383
pressman (naphthalene)	449	print and block center ...	257	printer, three-colour process ...	526
pressman (paper mill) ...	143	print colourer (for textile printing) ...	381	printer, ticket ...	529
pressman (paraffin wax) ...	638	print center ...	257	printer, tin box ...	529
pressman (parquet inlay) ...	638	printer ...	531	printer, tin ...	529
pressman (patent fuel) ...	099	printer, aluminium ...	529	printer, tin plate ...	529
pressman, pipe ...	279	printer, anastatic ...	539	printer, tip ...	537
pressman (pottery) ...	104	printer, are light ...	548	printer, tip ...	537
pressman (printer's) ...	548	printer, art ...	529	printer, transfer (lithographic)	528
pressman, revolution ...	413	printer, bag ...	429	printer, transfer (tin plate)	529
pressman, rim (motor) ...	602	printer, balloon ...	609	printer, wad ...	149
pressman, rubber ...	602	printer, bank note ...	529	printer (wall paper) ...	536
pressman (rubber mill) ...	602	printer, block (floor cloth, etc.) ...	638	printer, wax (dyer's, bleacher's)	398
pressman (seed crushing) ...	159	printer, block (pottery) ...	108	printer, zinc ...	529
pressman (sewage disposal) ...	970	printer, block (textiles) ...	367	printer, zincographic ...	529
pressman, shoe ...	413	printer, block (wallpaper) ...	535	printer's assistant ...	530
pressman, slinger ...	419	printer, blue ...	548	printer's assistant, operative	530
pressman, smith's ...	190	printer, bromide ...	527	printer's boy ...	548
pressman, steam ...	603	printer, bronze letter ...	538	printer's bronzer ...	546
pressman, stearine (candles) ...	159	printer, calico ...	383	printer's cleaner ...	548
pressman, steel ...	180	printer, carbon ...	527	printer's cutter ...	548
pressman (steel forging) ...	180	printer, carpet ...	383	printer's designer ...	548
pressman (sugar refining) ...	449	printer, carpet yarn ...	383	printer's devil ...	549
pressman, Swedish ...	448	printer, cheque ...	529	printer's draughtsman ...	528
pressman (textile warehouse)	943	printer, chromo-lithographic ...	527	printer's folder ...	529
pressman (tiles) ...	658	printer (cinema films) ...	529	printer's gilder ...	538
pressman, tyre ...	105	printer, collodion ...	527	printer's gunner ...	548
pressman, washer ...	143	printer, colotype ...	529	printer's helper ...	179
pressman (waste paper) ...	943	printer, colotype machine ...	529	printer's labourer (printing works) ...	549
pressman, wax (candles) ...	159	printer, colour (lithographic)	529	printer's labourer (textile printing) ...	389
pressman, white lead filter ...	149	printer, colour (textiles) ...	383	printer's lad ...	549
pressman, Yankee ...	413	printer, copper plate ...	529	printer's lead center ...	273
press manager ...	779	printer, cotton yarn ...	383	printer's lead maker ...	273
pressman in acid shop (collin- oid) ...	148	printer, cycle transfer ...	429	printer's machinist ...	538
pressman's labourer ...	549	printer, embroidery ...	429	printer's maker ...	538
press operator, coining ...	254	printer, enamel goods ...	529	printer's operative ...	530
press operator, hydraulic (cooca) ...	444	printer, engineer's photo ...	548	printer's operator ...	530
press operator (metal trades)	254	printer, envelope ...	529	printer's pressman ...	548
press operator (steel forge) ...	180	printer, film ...	527	printer's reader ...	548
press operator, telephony ...	619	printer, flat press ...	529	printer's reviser ...	548
press operator, wheel ...	190	printer (floorcloth, &c.) ...	638	printer's roller coverer ...	638
				printer's ruler ...	537
				printer's stamper ...	537

	Code Number.		Code Number.		Code Number.
printer's striker	530	producer attendant, gas (pro-	563	prover, proof	546
printer's transfere	101	ducer gas)	563	prover (tebes)	278
printer's varnish maker	158	producer hand	563	prover and tester	(bans)
print filler (carpets)	395	producer man	563	pruner	278
print filler (textile printing)	395	producer man, gas	563	provision superintendent	729
printing ink grinder	158	professional	885	provision merchant	770
printing ink maker	158	professional athlete	899	pruner	013
printing ink mixer	158	professional backer	899	pruner blue maker	143
printing ink oil boiler	158	professional billiard player	899	prunette crystalliser	143
printing ink varnish boiler	158	professional boxer	899	prunette maker	143
printing machine feeder	335	professional cricketer	899	prunette of potato maker	143
(leather)	335	professional footballer	899	pryer (sheet rolling mill)	278
printing machine feeder, tin	335	professional golfer	899	pryer (sheet rolling mill)	278
printing machine man	383	professional player	899	psycho	914
printing machine manager	529	professional rackets player	899	pubcan	914
printing machine minder	108	professional singer	899	pubcan's broker	796
(pottery)	108	professional soloist (com-	899	public bath attendant	919
printing machine minder	529	position)	899	public agent	779
(printing works)	529	professional tennis player	899	public lighting attendant	686
printing machinery erector	210	professional walker	899	(electricity supply)	
printing machinery fitter	210	professional wrestler	899	public lighting foreman (elec-	692
printing machine setter	529	professor of legermain	899	tricity supply)	
printing machine	108	profile miller	200	public works labourer	581
printing mixer	108	profiler, bone brush	618	public works mixer	581
printing transfer	108	profiler (bone brush making)	619	publicist's assistant	532
print moulder (lithographer's)	548	profiler (cellulose)	619	publicist's hunder	532
print sewer	399	profiler (metal trades)	200	pudding cutter	044
print sorter	399	profiling machine worker	200	pudding filler (preserved	446
print sorter-out	399	programme boy	889	meats)	
print stamper	529	programme girl	889	pudding maker, black	448
print stenciler	419	programme seller	889	pudding maker, blood	448
print trimmer	527	progress clerk	939	pudding maker, fruit	448
print washer (carpets)	396	progressor	384	pudding bar roller	172
print washer (textile bleach-	396	programman	939	puddler	172
ing, dyeing, printing)	396	prometer, company	799	puddler, forehead	172
print wind	353	prompter	887	puddler, iron	172
prism grinder	131	promper (buckets)	279	puddle roller	173
prism hand	131	promper (silver and plate	286	puddler's toolsmith	190
prism maker	131	work)	418	puer	333
prism worker	131	proof (canvas goods)	409	puerman	333
private bath attendant	919	proof (felt hats)	409	puft cutter	413
private checker	729	proof (hats)	409	puft (boots)	429
private constable	954	proof (lithographer's)	548	puft, glove	429
private detective	929	proof, oil (metal work)	220	puft moulder	414
private enquiry agent	929	proof (rubber spreader)	602	puft skiver	414
private inspector (members)	714	proof (sails)	279	puft sorter	429
private policeman	963	proofing maker (dilk hats)	409	puft boy	119
private postman	917	proof man (guano)	279	pugger (brick works)	119
private secretary (not govern-	939	proof passer (litho)	548	pugger, clay	104
ment)	939	proof prover	548	pugger (enamele)	152
probationary telegraphist	755	proof puller	548	pugger (pottery)	104
probationer, girl (Post Office)	755	proof reader	548	pugger-up	089
process artist	526	proof reviser	548	pug grinder, ganister	089
process black engraver	526	propagator	743	pug linter	041
process block etcher	526	prop carrier	743	puglist	399
process engraver	526	prop drawer	747	pug lifter	042
process engraver (hand tool-	526	propeller maker	498	pugman (brick works)	119
ing)	526	propeller shaper, ship's	200	pugman (cement, patent fuel	
process fine etcher	526	propeller shaper (wood)	498	works)	099
process machine minder	526	propeller agent	796	pugman, clay	104
process man (chemicals)	143	property jobber	563	pugman (pottery)	104
process man, deacon	143	property man	887	pug mill attendant (brick	119
process man, glycerine	143	property master	887	works)	
process man, glycerine dis-	142	property repairer	743	pug mill machineman	584
tiller)	142	prop measurer	743	pug mill man (cement,	089
process man (glycerine re-	142	prop, bone brush	618	patent fuel)	089
fining)	142	prop puller-off	047	pug mill man (pottery)	104
process man (hacks)	142	proprietor (bathing machine)	919	pug mill worker	564
process man (paints and	151	proprietor, brake	711	pug mill, chain	429
colours)	151	proprietor, cab	711	pug mill (fellingmongery)	338
process man, patent fuel	099	proprietor, café	911	pug mill, fur	338
process man (print works)	396	proprietor, carriage	711	pug mill (fur dressing)	338
process man (process en-	526	proprietor, cart	711	pug mill, mixing	399
graving)	526	proprietor, cattle float	713	pug mill, proof	548
process man (Weldon recovery	143	proprietor, coach	711	pug mill, punter (glass tubes)	139
process moulder	543	proprietor, dy	711	pug mill, rag	362
process moulder, half-tone	543	proprietor, horse	711	pug mill (silk)	399
process moulder, three colour	543	proprietor, hotel	914	pug mill, skin	338
process operator, collotype	526	proprietor, livery stable	711	pug mill, stamp	273
process operator, photogra-	526	proprietor, motor cab	712	pug mill, transfer (litho-	528
phic	526	proprietor, motor char-a-banc	712	grapher's)	
process operator, three colour	526	proprietor, motor garage	712	pug mill, waste (press cloth)	369
process printer	526	proprietor, pleasure gardens	911	pug mill, weight	396
process printer, half-tone	526	proprietor, refreshment room	911	pug mill (wood)	362
process printer, photo-litho	526	proprietor, sanatorium	912	pug mill, wool (fellingmongery)	338
process printer, three colour	526	proprietor, stage car	711		
process woman (chemicals)	143	proprietor, stage carriage	711		
process worker, carbolic acid	143	proprietor, tea gardens	911		
process worker (chemicals)	143	proprietor, truck	713		
process worker, glue	153	proprietor, van	713		
process worker (oil cake)	153	proprietor, wagnette	711		
process worker	913	proprietor of fair, round-	883		
process worker, cinema film	882	abouts, show, swings, &c.	883		
producer, film	882	proprietor (groves)	429		
producer, gas	953	proprietor, harrow	279		
producer (play, &c.)	880	proprietor, gas meter	278		
producer attendant, gas (gas	699	proprietor, gas meter	278		
works)	699	proprietor (grapher's)	278		
		proprietor, meter	278		

	Code Number.		Code Number.		Code Number.
pulley-and-runner	382	pump fitter	047	punch maker	190
pulley boy (glass)	942	pump filter	210	punch minder	363
pulley-down (section)	395	pump hand	418	punch minder, halling	363
pulley-down (galvanized sheet)	279	pump house attendant	550	punch press worker	254
pulley-on (glass)	942	pumping engine driver	556	punch shop superintendent	279
pulley-off (coal mine)	043	pumping engine man	950	punch tender	279
pulley-off (finishing)	399	pumping station foreman		punch minder	363
pulley-off (galvanized sheet)	279	(waterworks)	692	punchak boy	737
pulley-off, prop	047	pump inspector (coal mine)	051	punctum maker	472
pulley-off (saw mills)	499	pump inspector (metal mine)	051	punter (glass)	124
pulley-on (boots)	414	pump maker	074	punter (waste)	970
pulley-on (galena)	153	pumpman (clay, etc., quarry)	210	putter puller (glass tubes)	135
pulley-out (coal mine)	943	pump man (coal mine)	950	putter (bar)	429
pulley-out (hoistery)	279	pumpman, donkey	950	putty (territory)	124
pulley-out (hoistery)	399	pump man, electric	950	putty sticker	138
pulley-out (iron and steel rolling)	279	pumpman (asphalticous mine)	054	pupil, farm	074
pulley-out (oil-cake)	153	pumpman (oil wells)	079	purchase man	738
pulley-out (padding)	279	pumpman (on dredger, etc.)	749	purchase agent	772
pulley-out (steel manufacturing)	279	pumpman (petrol supply)	749	puttyman	331
pulley-over (boots)	414	pump man (railway)	318	purification man (gas works)	699
pulley-over (bar skins)	338	pumpman (slate mine or quarry)	076	purification man (saw)	699
pulley-over (bookbinder's)	549	pump man (stationary engine)	449	purifier, acetone	142
pulley-up (artificial flowers)	688	pumpman, vinegar	950	purifier, acid	143
pulley-up (boots)	414	pump minder (coal mine)	047	purifier (candles)	158
pulley-up (brick works or pottery)	119	pump minder (metal mine)	034	purifier (chemicals)	143
pulley-up (coal mine)	043	pump minder (stationary engine)	550	purifier, effluent	149
pulley-up, conveyor	043	pump sinker	550	purifier, fat (fat extraction)	159
pulley-up, fine	279	pumpman (metal mine)	550	purifier, fat (soap)	159
pulley-up (rolling mill)	279	pumpman (stationary engine)	950	purifier, feather	143
pulley-up (steam locomotives)	279	pump tender	950	purifier, mercury	143
pulley block maker	498	pumpwright	210	purifier, oil (refining)	158
pulley maker	498	Punch and Judy showman	899	purifier, oil (soap)	159
pulley man	043	punch attendant	279	purifier, quinine	143
pulley minder	043	punch box minder	343	purifier, and	158
pulley oiler	047	punch cutter (typefoundry)	210	purifier, sulphuric acid	143
pulleying-up boy (wire works)	279	punch engraver (typefoundry)	210	purifier attendants (gas works)	698
pull-out boy (saw mills)	499	puncher	239	purifier foreman (gas works)	698
pull-up	279	puncher, angle iron	239	purifier laborer (gas works)	699
pullup boy (anchor chain making)	279	puncher, bar	231	purifier leveler (gas works)	699
pulp cutter (artificial silk)	149	puncher, bobbin	239	purifier man (gas works)	699
pulper, fruit	448	puncher (boiler, etc., plates)	279	purifier man (grain milling)	432
pulper (gumouton)	148	puncher (boots)	429	purier	385
pulper, orange	449	puncher (card (jacquard))	429	purse maker, leather	346
pulper, paper	519	puncher, card (stationary)	429	purse maker, sovereign	346
pulper, peel (lemons)	449	puncher, clog iron	396	purser (mine)	910
pulperman	519	puncher, clog iron	552	purser (saw)	737
pulpit man	473	puncher, coal mine	042	purser, shorn	739
pulp maker	148	puncher (glass)	125	purser on pier	741
pulpstone maker	575	puncher, eye (needles)	254	purveyor	770
pulp weaver	149	puncher, fancy	429	push bench Sawyer	481
pulveriser (cereal foods)	449	puncher (forging, shipbuilding)	279	pusher (cake works)	081
pulveriser (cocoa)	449	puncher, fourchette	429	pusher (glass works)	139
pulveriser (patent fuel)	089	puncher (glove lining)	429	pusher, track (margarine)	449
punice man	439	puncher, indur rubber mat.	609	pusher, wagon	056
puncer, pipe (wood)	439	puncher, ingot	279	pusher (wire rod)	279
puncer (wood)	439	puncher, jacquard	396	pusher driver	278
punice stone sorter	099	puncher, label	552	pusher-in (coal mine)	049
pump attendant	950	puncher, lath	279	pusher-in (compound cake)	159
pump attendant, air (sugar refining)	950	puncher, machine knife (blank stamping)	254	pusher-off (brick works, pottery)	119
pump attendant, electric (clay, etc., quarry)	074	puncher, machine knife (bole punching)	609	pusher-off (cork)	638
pump attendant, sewage	950	puncher, mat	279	pusher-on (coal mine)	043
pump attendant, special	054	puncher (metal stamping)	254	pusher-out (brick works, pottery)	119
pump attendant, tyrore	950	puncher (needles)	254	pusher-out (coal mine)	043
pump boy	047	puncher, paper	552	push worker	468
pump doctor (coal mine)	047	puncher (paper or cardboard)	552	putcher (triplicate)	279
pump doctor (engineering works)	244	puncher, piano (jacquard)	396	puttee moulder	428
pump doctor (metal mine)	054	puncher, rail	279	putter (harytes, etc., mine)	076
pump driver	950	puncher, rubber mat	609	putter (clay, marl pit)	074
pump driver, impregnating (cables)	318	puncher, section (blank stamping)	254	putter (coal mine)	043
pump driver, vacuum	950	puncher, section (hole punching)	279	putter (fishing)	609
pump driver (vacuum cleaning)	950	puncher, shoe tip	279	putter, felling	043
pump engineer	244	puncher (silver and plate)	269	putter, hand (coal mine)	043
pump engine man	950	puncher, sleeper rail	279	putter, hand (metal mine)	054
pumper, brine	079	puncher, spring	279	putter, hewing	042
pumper (china clay, etc., quarry)	074	puncher, steel bar	279	putter (metal mine)	054
pumper (coal mine)	047	puncher (textile cards)	396	putter, pony (coal mine)	043
pumper, district syphon (gas works)	698	puncher, thumb	429	putter, pony (metal mine)	054
pumper (electric lamps)	318	puncher, toecap	429	putter, stone	042
pumper, hand	054	puncher, vamp	429	putter and bower	042
pumper (leather)	339	puncher (wool combing)	363	putter-in (bolts, nuts, rivets)	279
pumper (oil or brine well)	079	puncher and eyeletier (clips)	429	putter-in (bricks)	109
pumper (quarry)	074	puncher and shearer (rolling stock, etc.)	279	putter-in (carpets)	399
pumper (stationary engine)	950	puncher of trunks (gloves)	429	putter-in (galvanized sheet)	279
pumper, syphon (gas works)	698	punching hammerman	190	putter-in (iron and steel rolling)	279
pumper, tar spray	350	punching machine attendant	279	putter-in (linoleum)	638
pumper, vinegar	449	punching machine filler	639	putter-in, roving	399
pump erector	210	punching machine worker (bush making)	639	putter-in (ruling)	530
		punching machine worker (forging, shipbuilding)	279	putter-in, sprinkler	949
		punching machine	278	putter-off	043
		punch inspector	714	putter-on, hand	399
				putter-on (block roller cutting)	352
				putter-on (clogs)	429
				putter-on (glue)	158
				putter-on (notching machine)	679
				putter-on (photographic plates)	399

	Code Number
putter-on (spinning) ...	399
putter-on, tape ...	399
putter-on (textile printer's) ...	399
putter-out ...	398
putter-through (clothing trades) ...	401
putter-together (nails) ...	273
putter-together (bedsteads) ...	273
putter-together (brass ware, pressed metal) ...	278
putter-together (cutlery) ...	278
putter-together (electrical) ...	309
putter-together, fork ...	228
putter-together, saws ...	278
putter-together, silver ...	287
putter-together (silver and plate) ...	287
putter-together, steel fork ...	228
putter-together (watches) ...	323
putter-up (boot repairs) ...	429
putter-up, charge (padded bars) ...	279
putter-up, charge (steel) ...	278
putter-up (notions weaving) ...	398
putter-up, dipper's ...	119
putter-up, glist ...	109
putter-up (history) ...	949
putter-up (photographers) ...	189
putter-up (pottery) ...	119
putter-up, tarnish ...	159
putter-up (wool) ...	639
puttier (fishing boats) ...	939
putty maker ...	158
putty powder maker ...	158
putty sander ...	589
pyama maker ...	419
pyama trimming maker ...	428
pyramid maker (dummy display boxes) ...	539
pyridine saline maker ...	148
pyridine maker ...	143
pyridine man ...	148
pyridine plant man ...	148
pyrites breaker ...	149
pyrites burner ...	143
pyrites dresser ...	149
pyrometer attendant (foundry) ...	279
pyrometer attendant (iron and steel) ...	171
pyrometer attendant (pottery) ...	109
pyrotechnist ...	149
pyrotechnist (display band) ...	149
P.X.M. sewer (gloves) ...	411

Q

quarrier, alabaster ...	072
quarrier, basalt ...	072
quarrier, bath stone ...	072
quarrier, blackstone ...	072
quarrier, blue flag ...	072
quarrier, chert ...	072
quarrier (china clay, china stone) ...	074
quarrier (clay, gravel, &c.) ...	074
quarrier, elvan ...	072
quarrier, flagstone ...	072
quarrier, freestone ...	072
quarrier, gneiss ...	076
quarrier, granite ...	072
quarrier, grit ...	072
quarrier, grit rock ...	072
quarrier, limestone ...	072
quarrier, marble ...	072
quarrier (other mines or quarries) ...	076
quarrier, rock (slate quarry) ...	073
quarrier, rock (stone quarry) ...	072
quarrier, sandstone ...	072
quarrier, sets ...	072
quarrier (slate) ...	073
quarrier, slate ...	073
quarrier (stone) ...	072
quarrier, whinstone ...	072
quarry foreman ...	071
quarry labourer ...	071
quarry maker (tiles) ...	072
quarryman (china clay, china stone, &c.) ...	074
quarryman, dimension ...	072
quarryman (gypsum, plaster) ...	076
quarryman (iron ore) ...	036
quarryman (slate) ...	073
quarryman (stone) ...	072
quarryman, stonemason ...	076
quarry manager ...	070
quarry mason ...	075
quarry master ...	070
quarry miner ...	073

	Code Number
quarry owner ...	070
quarry smith ...	180
quarry tile maker ...	102
quarry worker (clay, &c., pit) ...	074
quarry worker (other name or quarry) ...	076
quartermaster ...	735
quarrie mason ...	076
quartz worker (electric lamps) ...	089
quay deputy ...	740
quay foreman (slipper's) ...	740
quay ganger, foreman ...	740
quayman (dock labourer) ...	745
quay man, fish ...	745
quay master ...	745
quay porter ...	745
quayward porter ...	745
quench, coke (coke ovens) ...	089
quench, coke (gas works) ...	699
quench (coke ovens) ...	089
quench (gas works) ...	699
quill cutter ...	639
quill, comb ...	367
quill (not silk) ...	367
quill (silk winding) ...	371
quill filler ...	371
quill gatherer ...	399
quill pen cutter ...	639
quill rubber (feather dressing) ...	639
quill winder (not silk) ...	367
quill winder (silk) ...	371
quilter, canvas ...	419
quilter (cricket balls) ...	688
quilter (mattresses) ...	419
quilter, sailcloth ...	419
quilter (sewing machines) ...	419
quilting machinist ...	419
quilt knoter ...	396
quilt maker (cricket balls) ...	688
quintessence purifier ...	143
quinine refiner ...	143

R

rabbit breeder ...	910
rabbit catcher (estate) ...	910
rabbit catcher (farm) ...	939
rabbit designer ...	910
rabbit-drawn worker ...	339
rabbit skin cutter (fur fete) ...	339
rabbit trapper ...	939
raceman ...	965
race runner ...	943
race traffic inspector ...	700
rack driver (hoopplate mill) ...	279
rack (beer, spirits, &c.) ...	459
rack (cloth stretching) ...	384
rack (litho) ...	480
rack (photographic plates) ...	689
rack (sheet metal goods) ...	279
rack (vinegar) ...	449
rack (warehouseman) ...	940
rack-out ...	149
rack filler (linplate) ...	479
rack maker (vicker) ...	479
rack sawyer ...	481
rack unloader (linplate) ...	279
racquet finisher ...	668
racquet finisher, tennis ...	668
racquet frame maker ...	499
racquet frame maker, tennis ...	499
racquet maker ...	688
racquet maker, squash ...	688
racquet maker, tennis ...	688
racquets player, professional ...	688
racquet stringer ...	688
racquet stringer, badminton ...	688
racquet stringer, squash ...	688
racquet stringer, tennis ...	688
racquet string maker ...	688
radial driller ...	200
radiant man (assembler) ...	278
radiant man (tester) ...	278
radisher ...	615
radium miner ...	050
radia worker ...	472
rad yard labourer ...	499
rafter (ships) ...	745
rafter (shipbuilding) ...	745
raftman (shipbuilding) ...	738
raftman (dock) ...	738
rag-and-bone man ...	717
rag beater ...	512
rag bleacher ...	518
rag blower ...	362
rag boiler ...	518
rag boilerman ...	518
rag breckerman ...	518

rag carboniser ...	361
rag chopper ...	319
rag chopperman ...	519
rag cleaner ...	362
rag cutter (mungs and shaddy) ...	399
rag cutter (paper making) ...	519
rag dryer ...	389
rag engineer ...	519
rag fitter ...	244
rag garnet worker ...	352
rag gatherer ...	399
ragger, roll (rolling mill) ...	200
rag grinder ...	362
rag-house overlocker ...	511
rag-house overseas ...	511
rag lighter-on ...	399
ragman ...	777
rag map maker ...	688
rag mender ...	399
rag passer ...	961
rag picker (textile mill) ...	399
rag picker (waste sorting) ...	961
rag potterman ...	362
rag puller ...	362
rag roller ...	399
rag sander ...	361
rag scanner ...	399
rag shaker (paper mill) ...	519
rag shaker (textile mill) ...	362
rag sorter ...	964
rag warehouseman ...	940
rag washer (mungs and shaddy) ...	361
rag washer (paper making) ...	518
rag wileyer ...	362
rag bank man ...	279
rag bender (metallic bodsteads) ...	278
rag breaker ...	279
rag cutter (hot) ...	278
rag dresser ...	279
rag drill cleaner ...	279
rag drill ...	279
rag drill feeder ...	279
ragger (metallic bodsteads) ...	278
rag finisher, action ...	496
rag finisher, hammer ...	496
rag finisher (metal sawyer) ...	279
rag fitter (bodsteads) ...	278
rag gagger (rolling mill) ...	279
rag gangwayman ...	745
rag inspector ...	700
rag layer (tramway) ...	577
ragless car driver ...	720
ragless tram driver ...	720
rag loader ...	279
rag maker, action ...	496
rag maker, hammer ...	496
rag maker (piano) ...	488
rag maker (rolling mill) ...	176
rag man (chair foundry) ...	180
ragman, conduit ...	311
ragman, contact ...	311
ragman (dock) ...	745
rag motor car driver ...	701
rag motor conductor ...	702
rag motor inspector ...	700
rag patcher ...	279
rag plasher ...	200
rag plan feeder ...	279
rag puncher ...	279
rag roller ...	176
rag sawer ...	278
rag stacker ...	279
rag stamper ...	279
rag straightener ...	276
rag steamfitter feeder ...	279
rag tester ...	279
rag unloader ...	279
railway agent ...	713
railway carriage lock maker ...	243
railway carriage painter ...	593
railway carrier (contractor) ...	713
railway carrier (horse) ...	719
railway carrier (motor) ...	720
railway cartage foreman ...	716
railway cartage inspector ...	714
railway carting agent (coal-tractor) ...	713
railway carting agent (not employed) ...	729
railway chair maker ...	180
railway chair moulder ...	180
railway clerk ...	939
railway coach painter ...	593

	Code Number.		Code Number.		Code Number.
railway constable ...	709	rancer, bobbin ...	436	rearer, poultry ...	011
railway draughtsman ...	332	rancer, flyer ...	200	rearer-on ...	496
railway engine fitter ...	210	rancer (textile machinery) ...	280	re-beamer ...	367
railway engine pecker ...	273	rancer's attendant ...	499	receiver, barley ...	456
railway fitter ...	210	rancher ...	011	receiver, cargo ...	731
railway ganger ...	561	rander (basket maker) ...	472	receiver, cigarette machine ...	448
railway grease maker ...	159	rander (twine) ...	367	receiver (doles) ...	729
railway grease molder ...	159	random maker ...	159	receiver (foreman) ...	329
railway grease refiner ...	159	range builder ...	373	receiver (grease room) ...	390
railway labourer (contractor's navy) ...	581	range filter ...	576	receiver (laundry) ...	918
railway labourer (plate-layer underman) ...	577	range fixer ...	585	receiver (laundry, dyer's agent) ...	775
railway miner ...	581	ranger, bank (canal inspector) ...	731	receiver, malt ...	459
railway omnibus conductor ...	724	ranger, bank (canal labourer) ...	531	receiver, milk ...	449
railway parcel agent (com- tractor) ...	713	ranger (boats, shows) ...	413	receiver (rolling mill) ...	173
railway parcel agent (not em- ployer) ...	729	ranger, forest ...	016	receiver, sheet mill ...	175
railway parcels van man ...	719	ranger (glass) ...	138	receiver (storekeeper) ...	940
railway plate-layer ...	577	ranger, pipe ...	576	receiver, timber ...	704
railway policeman ...	709	ranger, wood ...	016	receiver and deliverer ...	706
railway porter ...	796	range tile ...	989	receiver man (blast furnace) ...	279
railway rates clerk ...	939	range warden ...	989	receiver of arms (small arms) ...	941
railway refreshment room manager ...	914	range weaver ...	370	receiver of dues ...	731
railway signal fitter ...	210	ransacker (fishing net) ...	398	receiver of rates and dues, principal ...	731
railway signal lens maker ...	125	ransacker, net ...	398	receiving agent, laundry ...	775
railway signal lock bar fitter ...	210	raps oil refiner ...	158	receiving, boiler ...	539
railway sleeper sawyer ...	481	rapid folder ...	416	receiving clerk ...	539
railway spring maker ...	653	rapid maker ...	050	receiving home keeper ...	700
railway wagon builder ...	210	raper (metal mine) ...	154	receiving office agent ...	700
railway wagon fitter ...	210	raper lad (metal mine) ...	043	receiving office attendant ...	775
railway wagon repairer ...	652	rapperman ...	043	receiving office foreman ...	786
rail weaver ...	279	rasp cutter ...	232	receiving office inspector ...	700
rail welder ...	249	raper (dye woods) ...	143	receiving office porter ...	706
rail wheeler ...	279	raps forger ...	190	receiving-room assistant (tailor) ...	429
ramproof machinist ...	404	ras cutter ...	039	receiving shop assistant ...	429
ramproof garment maker ...	416	rascher (hand plait) ...	356	receptionist, photographer's ...	527
ramper, blanket ...	384	rascher (textile finishing) ...	384	receptor, bobbin ...	485
ramper, button ...	629	rascher (textile ware-house) ...	943	Receptor (metal trades) ...	276
ramper (coopering) ...	493	ratchet machine man ...	654	recesser, rivet ...	279
ramper, flange-let ...	334	ratchet maker ...	324	Recesser, stud ...	279
ramper (gold) ...	294	rate fixer ...	164-169	recker (linplate) ...	279
ramper, gold mth ...	293	rates clerk, railway ...	939	reclamer ...	603
ramper, hand ...	399	rating clerk, chief (not local authority) ...	931	reclamer ...	371
ramper, nap ...	380	rating surveyor and valuer ...	573	recliner ...	649
ramper, orange (dyer's) ...	384	ratifier ...	301	record boy ...	379
ramper (pens) ...	254	ratifier ...	373	recorder (explosives) ...	939
ramper, pie ...	433	ratton worker (cane furniture) ...	472	recorder (gramophones) ...	939
ramper, piece (carpets) ...	393	rattler (rattings) ...	183	recorder, lead ...	706
ramper (printing works) ...	524	rattler (rivets) ...	279	recorder, train (porter) ...	706
ramper, rubber ...	013	raw glaser, edge tool ...	238	recorder, train (signal box) ...	703
ramper, silver ...	267	raw material discharger ...	279	recorder, attendant (elec- tricity, gas) ...	693
ramper (silver and plate) ...	267	raw material filler ...	279	recorder attendant (elec- tricity sub-station) ...	554
ramper, steam (railway) ...	709	raw material transporter ...	447	record girl ...	649
ramper, steam (stationary en- gine) ...	951	raw sugar man ...	279	record presser ...	649
ramper, stock ...	011	razor blade grinder (machine) ...	339	Recoverer, acetone ...	142
ramper (textile finishing) ...	384	razor case maker ...	136	Recoverer, glycerine ...	143
ramper (tinplate, copper) ...	384	razor case maker (paper) ...	559	Recoverer (rubber) ...	696
ramper (twelve and fusian) ...	279	razor forger ...	190	Recoverer, soap waste ...	159
raising machine tender ...	384	razor halber ...	226	Recoverer, solvent (collodion) ...	159
raising machine tender ...	384	razor setter ...	227	Recoverer, stearine ...	159
raising machine tender, flange pellet ...	384	razor setter-in ...	227	Recovery hand, zinc ...	279
raisin storor ...	449	razor smith ...	190	Recovery man, acetone ...	142
rake driver (gas works) ...	699	razor whetter ...	237	Recovery man, ash ...	143
rake maker ...	493	Reacher ...	399	Recovery man, soda ...	143
rake maker, wood ...	493	Reacher, drawer's ...	399	Recovery man, solvent ...	149
raiser, wagon ...	709	Reacher, enterer's ...	399	Recovery process man, Weldon ...	143
raiser (coal mine) ...	042	Reacher (lead knitting) ...	399	Recovery worker, alcohol ...	142
raiser, oaks (gas works) ...	951	Reacher-in, end ...	399	Recovery worker, crude glycer- ine ...	143
raiser, fire (boiler) ...	699	Reacher-in, warp ...	399	rectified sulphuric acid man ...	143
raiser, fire (gas works) ...	699	Reader, card (lace) ...	399	rectified sulphuric acid pan man ...	143
raiser-in, warp ...	399	Reader, curtain ...	399	rectifier, acetone ...	142
raiser-out (coal mine) ...	042	Reader, index (gasworks) ...	699	rectifier, benzol ...	142
raiser-out (seed crushing) ...	139	Reader (lace) ...	398	rectifier (distiller) ...	142
raiser runner ...	043	Reader, manuscripts ...	548	rectifier, petrol ...	149
rambleman ...	047	Reader, meter ...	699	rectifier, petroleum ...	149
ram engine man ...	698	Reader, press cutting agency ...	789	rectifier, tar ...	142
ramie cleaner ...	398	Reader (press cutting agency) ...	789	rectifying man, acetone ...	142
ramie dammer ...	398	Reader (printer's) ...	548	redder ...	044
ramie spinner's boiler ...	398	Reader, printer's ...	548	redder, stone ...	044
ramie winder ...	367	Reader, proof ...	548	reddman ...	044
ram man ...	081	Reader-in ...	396	red facing brick maker ...	102
rammer (artificial stone) ...	099	Reader-off (lace) ...	399	red filler ...	142
rammer, bottom ...	273	Reader's assistant ...	548	redder ...	044
rammer, box ...	183	Reader's boy ...	548	redder, stone ...	044
rammer, cap ...	279	Reading boy ...	548	reddman ...	044
rammer (cartridges) ...	149	Reader ...	203	red facing brick maker ...	102
rammer, capola ...	276	Readerer, dye ...	200	red filler ...	142
rammer, joint ...	565	Readerer, flyer ...	200	redder ...	044
rammer, lead ...	276	Readerer (textile machinery) ...	200	redder, stone ...	044
rammer (mould) ...	183	Reader, flyer ...	200	redder, stone ...	044
rammer, plug (steel) ...	273	Reader, hand ...	279	redder, stone ...	044
rammer, roll ...	099	Readering machinist ...	200	redder, stone ...	044
rammerman ...	581	Reader, tier ...	548	redder, stone ...	044
rammer-up ...	183	Reaping hook forgerman ...	190	redder, stone ...	044
ramrod maker ...	279	Reaping hook maker ...	190	redder, stone ...	044
		Reaping hooksmith ...	190	redder, stone ...	044
		Reaping machine attendant ...	021	redder, stone ...	044

	Code Number.		Code Number.		Code Number.
reducer, gas burner	254	refiner, ballion	298	regulator (tramways, omnibus)	714
reducer (textile dyeing)	281	refiner, camphor	148	regulator, sand	704
reducer (wire)	279	refiner (candles)	159	regulator maker	324
reducer (wood combing)	363	refiner, carboxylic acid	142	re-actuator	171
reducer minder	363	refiner, castor, grass	159	ream maker	363
reducing box minder	363	refiner, child's light	448	relapser	363
reducing furnace land	279	refiner (chocolates)	448	re-laster	414
reducing furnaceman	171	refiner, coach grease	159	relay clerk	755
red ware maker	105	refiner, coal	143	relay (permanent way)	577
reed board fitter (reed organ)	643	refiner, cobalt	159	relaying foreman (railway)	561
reed braider	472	refiner, cod liver oil	159	relaying slip and drainage	591
reed collector	339	refiner (copper-electrolytic process)	278	rel-increase man (sumatra)	729
reed cutter	631	refiner (copper, iron, lead)	171	relief assistant signman	703
reeder	363	refiner, cotton oil	159	relief clerk	938
reeder-in	368	refiner, dirt	278	relief engraver	704
reed finisher (textile machinery)	278	refiner (distiller)	142	relief gateman	704
reed gatherer	939	refiner, dripping	159	relief guard	702
reed maker (concertina)	643	refiner, engine oil	159	relief guard, spare	702
reed maker (harmonium)	643	refiner, fat or oil	142	relief man (porter)	702
reed maker (musical instruments)	648	refiner, glycerine	142	relief man (signman)	703
reed maker (pipe organs)	643	refiner, gold	298	relief porter	706
reed maker (textile reeds)	278	refiner, gold and silver	298	relief porter, district	706
reed plaster	472	refiner, grease	159	relief stunner	704
reed stove maker	486	refiner, kerosene	143	relief signman	703
reed varnisher (textile)	599	refiner, kitchen stuff	159	relief signman, district	703
reed voice (reed organ, &c.)	599	refiner, lac	448	relief signman, dock	703
reed wire drawer (textile machinery)	268	refiner, lignite	448	relief signal porter	703
reed borer	496	refiner, medicinal oil	159	relief stamper	552
reeder, bar (rolling mill)	278	refiner, metal	278	relief stamper, full bedding	552
reeler, bobbin	367	refiner (metal mine)	356	relief station master	700
reeler, cop	367	refiner, naphtha	143	relief supervisor	700
reeler (cordite)	149	refiner, naphthalene	143	relieving man, district	706
reeler (finishing)	149	refiner, night light	278	relighter	396
reeler, fuse	943	refiner, oil	159	reliner, bearing (railway)	210
reeler, line	399	refiner, oil (mineral oil)	142	re-maker, box	479
reeler (mining and safety fuses)	149	refiner, oil (sealer or waste)	159	remaker (dyer's or cleaner's)	703
reeler (not silk)	367	refiner, paraffin oil	143	reminder, train (railway)	703
reeler (paper coating machine)	549	refiner, petrol	142	removal contractor	713
reeler (paper mill)	518	refiner, petroleum	142	removal estimator	933
reeler (paper staining)	549	refiner, platinum	258	remover, anode	148
reeler (photographic films and paper)	689	refiner, potassium	143	remover, furniture (contractor)	713
reeler (powder mill)	149	refiner, rape oil	159	remover, furniture (porter)	706
reeler (printer's)	529	refiner, saltpetre	143	remover, scrap (iron and steel rolling)	295
reeler, ring bobbin	367	refiner, sample	156	remover, snow	459
reeler (rolling mill)	278	refiner, scum	171	remover, soil	459
reeler, rope	399	refiner, silver	298	remover, waste	399
reeler, rope walk	399	refiner, spelter	171	remover, yarn	399
reeler (rope yarn)	399	refiner, spermacei	159	remover, yard	454
reeler (silk)	371	refiner, seafoam	159	render, ballie	493
reeler, skein	367	refiner, steel	448	render, bath	493
reeler (screw plant)	429	refiner, sulphur	143	render, lattice	493
reeler (tapes, &c.)	943	refiner, sulphuric acid	143	render, spoko	475-6
reeler (thread)	367	refiner, talow	159	render, wood	489
reeler, throatle	367	refiner, tin	142	rental gang foreman (railway)	561
reeler, top	367	refiner, wax (candles)	171	rental man	408
reeler, twine	399	refiner, wax (paraffin wax)	143	renovator, dress	404
reeler, twist	399	refiner hand (chocolate)	448	renovator (tailoring)	404
reeler (yarn bleaching)	367	refiner man (chocolate)	448	renovator (umbrella, parasol)	416
reeler (yarn dyeing)	367	refiner man (copper)	278	rent agent	796
reeler, yarn (rope and twine)	367	refiner's assistant	159	rental clerk	939
reelerman	518	refinery man, brimstone	143	rent bullif	939
reeler-off	519	refinery man, copper	171	rent collector	789
reeler-up (braids, &c.)	355	refinery man, saltpetre	143	renter, film	881
reel hand	399	refinery man (zinc)	171	rentingman	362
reeling overlooker	530	refining furnaceman (copper, lead)	171	repairer, accumulator	044
reeling room yarn lad	399	refining house man	159	repairer, airway (coal mine)	054
reel knitter	943	refining machine attendant (chocolate)	448	repairer, airway (metal mine)	054
reel lacer	371	refining man (iron)	171	repairer, assistant	044
reel maker, fishing	688	refinement room contractor	911	repairer, automatic machine	244
reel maker (wood-working machinery)	486	refreshment room manager, railway	911	repairer, bag	417
reel mill hand	371	refreshment room proprietor	911	repairer, bank (band drainage)	326
reel picker (silk)	399	refrigerating engineer (ship)	734	repairer, barrel	477
reel piercer	486	refrigerating plant attendant	159	repairer, beer case or stand	474
reel tirket maker	529	refuge destructor man	970	repairer, belt (polishing belt)	343
reel winder	367	registered labourer	745	repairer, bolts	090
reel labourer	939	register (bank, insurance, &c.)	930	repairer, box	479
reere, dyke	019	registry office keeper	771	repairer, bricks	244
reere, moss	039	registry office manager	771	repairer, brick kiln	565
reere	098	regulator, action (pianos)	770	repairer, canal bank	58
reerefer	098	regulator, assistant traffic	642	repairer, canvas hose	416
refined benzol maker	142	regulator, assistant (tramways, &c.)	714	repairer, card	398
refined chalk maker	149	regulator, gas	714	repairer, cast sheet	419
refiner, acid (oil)	158	regulator (organ)	641	repairer, case	479
refiner, acid (process man)	143	regulator (pianos)	642	repairer, oak	477
refiner, silica	298	regulator (player piano)	648	repairer, chain (harness)	278
refiner, antimony	171	regulator (railway)	704	repairer, chimney	365
refiner, arsenic	171	regulator, traffic (railway)	708	repairer, clock	323
refiner, beeswax	171	regulator, traffic (tramways, omnibus)	714	repairer, coal mine	044
refiner, benzol	142			repairer, coil	303
refiner, blood	158			repairer, colliery corse	652
refiner, borax	148			repairer, colliery team	352
				repairer, colliery tub	652
				repairer, controller	318

	Code Number.		Code Number.		Code Number.
repairer, cord	311	repmold worker	321	returman	644
repairer, corve	652	representative, advertisement	774	returmerary furnaceman	171
repairer, cover	608	representative, advertising	779	reverser man, gas	548
repairer, cupola	565	representative, commercial	771	reverser, machine	548
repairer (cycle)	229	(agent)	771	reverser, press	548
repairer, cycle	229	representative, commercial	773	reverser, printer's	548
repairer, cycle saddle	308	(traveller)	773	reverser, proof	548
repairer, electric meter	379	representative, correspondence	789	revolution indicator maker	322
repairer (embroidery)	588	school (or business training)	789	resolution pressman	413
repairer, film	588	college	789	revolver fire	143
repairer, furnace	565	representative, dock (not for)	732	revolver man (chemical works)	143
repairer, furniture	473	dock company)	732	revolver man (ore furnace)	171
repairer, gas meter	264	representative, outdoor	732	revolving furnaceman	367
repairer, glass	569	representative, wholesale	773	re-winder, double (cotton)	371
repairer (glazed pottery)	108	repressor (brick)	102	re-winder, single (cotton)	367
repairer, house box	475-6	repressor, brick	102	re-winder, thread	367
repairer, house	563	re-racker	458	re-winder, thread (cotton)	367
repairer, house drain	565	re-ranter (gas works)	271	re-winder, thread (cotton)	367
repairer, hub	582	rescue man	047	re-winder, thread (cotton)	367
repairer, hydraulic	244	rescue station superintendent	041	re-winder, thread (cotton)	367
repairer, instrument	309	reservoir attendant (canal)	749	re-winder, thread (cotton)	367
repairer, jewellery and plate	318	reservoir attendant (water-works, electricity supply)	689	re-winder, thread (cotton)	367
repairer (lamps)	318	reservoir hallif	689	re-winder, thread (cotton)	367
repairer (laundry)	419	reservoir inspector	692	re-winder, thread (cotton)	367
repairer (leather belt)	343	reservoir keeper	692	re-winder, thread (cotton)	367
repairer (leather goods)	343	reservoir policeman	693	re-winder, thread (cotton)	367
repairer, magnets	309	reservoir watchman	693	re-winder, thread (cotton)	367
repairer (metal mine)	654	reservoir watchman	693	re-winder, thread (cotton)	367
repairer, meter (electric)	379	res-builder	279	re-winder, thread (cotton)	367
repairer, motor (gas, etc.)	245	res-builder's assistant	279	re-winder, thread (cotton)	367
repairer, motor	248	res-builder's boy	279	re-winder, thread (cotton)	367
repairs, net	390	res-builder's electrical superinten-	690	re-winder, thread (cotton)	367
repairs, night	044	dent	690	re-winder, thread (cotton)	367
repairs, nozzle	492	resident engineer, assistant	690	re-winder, thread (cotton)	367
repairs, oil sheet	418	(electricity supply)	690	re-winder, thread (cotton)	367
repairs, oven	565	resident engineer (waterworks, electricity supply)	690	re-winder, thread (cotton)	367
repairs (packing case, etc.)	474	resident porter	040	re-winder, thread (cotton)	367
repairs (piano, organ)	648	resident viewer	040	re-winder, thread (cotton)	367
repairs, pick	190	resilient working attendant	919	re-winder, thread (cotton)	367
repairs, pipe	488	residuals clerk	939	re-winder, thread (cotton)	367
repairs, pit box	652	residue dresser (mine)	278	re-winder, thread (cotton)	367
repairs, plate	279	resin boiler	158	re-winder, thread (cotton)	367
repairs, plough (tram car)	278	resinner	458	re-winder, thread (cotton)	367
repairs, property	318	resin maker	158	re-winder, thread (cotton)	367
repairs, railway wagon	552	resin (for resin) stiller	142	re-winder, thread (cotton)	367
repairs, road (colliery)	644	resistance maker	369	re-winder, thread (cotton)	367
repairs, road (metal mine)	054	resistor maker	685	re-winder, thread (cotton)	367
repairs, road (coal mine)	044	restaurant keeper	911	re-winder, thread (cotton)	367
repairs, roof (contractor's)	570	restaurant	911	re-winder, thread (cotton)	367
repairs, roof (rolling stock)	474	rest driver	279	re-winder, thread (cotton)	367
repairs, running (tramway car)	658	restorer, artistic	369	re-winder, thread (cotton)	367
repairs, sack	417	restorer (glazed pottery)	108	re-winder, thread (cotton)	367
repairs, saddle and harness	344	restorer, picture	969	re-winder, thread (cotton)	367
repairs, sail sheet	418	restorer (stone mine or quarry)	672	re-winder, thread (cotton)	367
repairs, scale	250	retail hnbber	770	re-winder, thread (cotton)	367
repairs, sewing machine	244	retail dealer	770	re-winder, thread (cotton)	367
repairs, shaft	047	retailer, beer	914	re-winder, thread (cotton)	367
repairs, shop	662	retailer (dealer)	770	re-winder, thread (cotton)	367
repairs (silver and plate)	267	retail shopkeeper	770	re-winder, thread (cotton)	367
repairs, sluice valve	696	retort attendant (shale)	142	re-winder, thread (cotton)	367
repairs, surface contact equipment	318	retort builder	585	re-winder, thread (cotton)	367
repairs, syphon	278	retort charge driver	693	re-winder, thread (cotton)	367
repairs, (tailor's)	404	retort charger (gas works)	693	re-winder, thread (cotton)	367
repairs (tarpaulins, etc.)	418	retort charger (shale burning)	148	re-winder, thread (cotton)	367
repairs, ticket punch	278	retort charger (gas works)	693	re-winder, thread (cotton)	367
repairs, time recorder	323	retort drawer (gas works)	693	re-winder, thread (cotton)	367
repairs (tin boxes)	279	retort drawer (mineral oil refining)	149	re-winder, thread (cotton)	367
repairs, tool (engineering works)	278	retort dresser (brickworks)	149	re-winder, thread (cotton)	367
repairs, tool (shipbuilding)	244	retort dropper	149	re-winder, thread (cotton)	367
repairs, tramway	579	retort enaser	149	re-winder, thread (cotton)	367
repairs, tub (colliery)	652	retort filler (gas works)	210	re-winder, thread (cotton)	367
repairs, tub (cooperage)	477	retort hand, animal charcoal	143	re-winder, thread (cotton)	367
repairs, tunnel	577	retort hand (fish casing)	437	re-winder, thread (cotton)	367
repairs, typewriter	267	retort house forman	692	re-winder, thread (cotton)	367
repairs, tyre	696	retort house ganger	692	re-winder, thread (cotton)	367
repairs (umbrella, parasol)	416	retort house greaser	699	re-winder, thread (cotton)	367
repairs, vacuum brake	244	retort house man	699	re-winder, thread (cotton)	367
repairs, van or wagon sheet	418	retort labourer	699	re-winder, thread (cotton)	367
repairs (vehicle)	475-8	retort maker, freelay	103	re-winder, thread (cotton)	367
repairs, wagon	323	retort maker (pottery works)	103	re-winder, thread (cotton)	367
repairs, watch	323	retort man (gas works)	693	re-winder, thread (cotton)	367
repairs, watch and clock	323	retort man, nickel	171	re-winder, thread (cotton)	367
repairs (weighing machine)	260	retort man (shale)	142	re-winder, thread (cotton)	367
repairs, weighing machine	260	retort mender (bricklayer)	565	re-winder, thread (cotton)	367
repairs, Westinghouse brake	244	retort patcher	565	re-winder, thread (cotton)	367
repairs, wheelbarrow	474	retort pipe dresser	149	re-winder, thread (cotton)	367
repairs, wheel	414	retort scurfer (gas works)	699	re-winder, thread (cotton)	367
repairs depot superintendent	714	retort setter	565	re-winder, thread (cotton)	367
repasser and finisher (barrel organ)	648	retracer (photography)	527	re-winder, thread (cotton)	367
repasser officer	755	retracer (photography)	527	re-winder, thread (cotton)	367
repasser, control	709	retracer, tyre	616	re-winder, thread (cotton)	367
repasser, train	706	reter	362	re-winder, thread (cotton)	367
repasser and signalman, meteorological	749	reter, flax	362	re-winder, thread (cotton)	367
		returned sugar hand	449	re-winder, thread (cotton)	367

	Code Number.		Code Number.		Code Number.
rider, plane	043	ring frame spanner	365	riveter, fencing	255
rider, rope	043	ring frame tenter	365	riveter, fibre can	256
rider, rough	725	ring greaser	399	riveter, fuse chain	324
rider, run (coal mine)	043	ring hardener	220	riveter, girder	255
rider, run (stone mine or quarry)	072	ring jobber	399	riveter, glass	989
rider, seat (coal mine)	043	ring maker	354	riveter, hand	255
rider, seat (metal mine)	034	ring maker, asbestos	354	riveter, hollow-ware	255
rider, seat (stone mine or quarry)	072	ring maker, bolt	284	riveter, hydraulic	255
rider, slope	043	ring maker, carved	203	riveter, made	255
rider, surface	049	ring maker, cornice	495	riveter, iron wheel	255
rider, train	043	ring maker, curtain	495	riveter (leather belting)	343
rider, tram	043	ring maker, gum	284	riveter (leather goods)	344
rider, wagon	744	ring maker (gold, silver)	284	riveter, leatherman	295
rider-on-top	049	ring maker (jewellery—not gold or silver)	296	riveter, machine	255
ridge maker	102	ring maker, pump	234	riveter (metal trays)	255
ridge-runner	119	ring maker (ing making)	279	riveter, pneumatic	255
ridge tile maker	102	ring maker, rod	278	riveter, pom pom	255
riding saddle maker	344	ring maker (rubber)	699	riveter, powder canister	255
rigger	190	ring maker, split	279	riveter, saddle tree	279
rigger maker	190	ring maker (textile ma- chinery)	278	riveter, salt pan	255
rife assembler	239	ring maker (wood)	486	riveter, shell	255
rife fitter	239	ring maker, wooden	486	riveter, shoe	429
rife machinist	200	ring master (circus)	359	riveter, stay	235
rife maker	239	ring overlooker	354	riveter, stay hole	255
rife range assistant	399	ring piece	365	riveter, stand	609
rife, barrel	529	ring spindle maker	278	riveter, telegraph tubing	255
rife shooter	529	ring spools, tester	278	riveter, umbrella	255
rife stocker	489	ring spinner	365	riveter attendant, hydraulic	255
rigger (aeroplane, &c.)	278	ring stamper (forge worker)	190	riveter attendant, steam	255
rigger (dock worker)	745	ring stamper, split	234	riveter's helper	256
rigger (fishing nets)	399	ring stringer	389	riveter's holder-up	255
rigger, net	398	ring turner (spinning frame)	200	riveter's labourer	254
rigger (rolling mill, tubes, &c.)	212	ring twister	366	rivet header	256
rigger, salvage	745	ring winder	367	rivet heading machine man	278
rigger, scaffold	564	sink floor manager	384	riveting machinist	255
rigger (scaffolder)	564	riser, bottle	978	rivet machine mender	255
rigger (shipbuilding)	668	riser, cork	459	rivet machine tender	279
rigger, ship (for working cargo)	745	riser (ladazry)	918	rivet maker, boat	254
rigger, ship (shipbuilding)	668	rivet, back	044	rivet maker, copper	279
rigger, ship's	668	rivet (colliery road)	044	rivet maker (engineering trades)	279
rigger (slinger)	668	rivet, house	588	rivet man	256
rigger, stage	568	rivet, mangle	398	rivet reamer	256
rigger (textile finishing)	384	rivet, rag	399	rivet stores attendant	279
rigger (textile warehouse)	943	rivet, road	044	rivet tender	942
rigger (travelling cradle)	580	rivet, road (colliery roads)	044	rivet warmer	278
rigger (wire rope)	289	rivet, rock (miner)	047	rivet and yard cleaner	709
rigger and plier	384	rivet, top	562	rivet bay	043
rigger and roller	384	rivet, waste	399	rivet cleaner (blast furnace)	279
rigger's labourer	668	rivet (wire drawing)	288	rivet cleaner (coal mine)	044
rigger-up	384	rivetman	510	rivet cleaner (contractor's)	581
rim assembler	239	rivet, nail (copper rolling)	279	rivet cleaner (metal mine)	054
rim balance maker	304	rivet (silica bricks)	119	rivet cleaner (rearinger)	970
rim-bender (coach-building)	475-6	rivet (triangle)	279	rivet cod	044
rim bender (cycle, perambula- tor wheels)	278	rivet, broach	495	rivet contractor (not em- ployed)	501
rim bender, wheel	278	rivet, clay	495	rivet doggy	641
rim drill	200	rivet (fish curing)	437	rivet feller	044
rim drill, wheel	200	rivet, lath	495	rivet flasher	970
rimless fitter	322	rivet, slate	576	rivet foreman	561
rim maker (coach-building)	475-6	rivet (slate quarry)	576	rivet ganger	561
rim maker (rolling mill)	178	rivet and canal agent	730	rivet inspector (electricity supply)	692
rim measure maker	496	rivet balliff	910	rivet inspector (omnibus, tramway service)	714
rimmer	200	rivet foreman	692	rivet labourer	581
rim pressman	254	rivet foreman	692	rivet layer	577
rim roller	178	rivet gratesman	699	rivet maker	581
rim roller, wheel	178	rivet keeper	910	rivet maker (coal mine)	044
rim turner	200	rivet labourer	581	rivetman (contractor's)	581
rim welder (acetylene, &c.)	248	rivet pilot	733	rivetman, engine	044
rim welder (forge)	190	rivet policeman	963	rivetman (gypsum, plaster mine)	076
rim welder, wheel	248	rivet porter	745	rivetman, leading	581
rim worker	279	rivet walkman	699	rivetman (metal mine)	064
rim worker, wheel	279	rivet welder	910	rivetman (patent fuel)	089
rinser, bobbin	495	rivet watcher	910	rivetman, skip	054
rine labourer	495	rivet wood cutter	039	rivetman (slate mine or quarry)	073
ring attendant	399	rivet bay	254	rivetman (stone mine or quarry)	072
ring bander	399	rivet carrier	254	rivet man, wagon	043
ring bobbin reeler	367	rivet catcher	254	rivet metal miner	072
ring bobbin winder	367	rivet counter	254	rivet platelayer (tramway)	577
ring cleaner	123	rivet cutter	279	rivet repairer (coal mine)	054
ring doffer	399	rivet, roller, boat	345	rivet repairer (metal mine)	054
ring doubler (not silk)	399	rivet, bag frame	279	rivet ripper	577
ring doubler (spun silk)	371	riveter, bag	345	rivet setter	577
rinser, bottle	495	riveter, bag frame	345	rivetman (harges)	730
rinser, cigar	495	riveter (bag, trunk)	345	rivetman (coal mine)	044
rinser (cigar)	495	riveter, bobbin	279	rivetman (metal mine)	054
rinser, fish hook	278	riveter, boiler	255	rivetstone miner	072
rinser (fish hook)	278	riveter (boat, shoe)	429	road sweeper (coal mine)	044
rinser, handbell	486	riveter (brass bobbins)	429	road sweeper (scavenger)	970
rinser, stopper	459	riveter, burlap	278	road waterer	047
rim examiner (textile ma- chinery)	278	riveter, bush	255	road tester (motor)	278
ring forger	190	riveter, china	278		
ring frame doffer	399	riveter (corsets)	278		
ring frame doubler	366	riveter, curry comb	279		
ring frame layer-on	399	riveter, cycle	255		
ring frame piece	365	riveter, fastening (gloves)	429		

Ro

Code	Number.	Code	Number.	Code	Number.
roaster	437	rod maker, fishing	469	roller, merchant	178
roast cook (basta, etc.)	940	rod maker, wire	173	roller, muck	178
roast cook (ship)	737	rod mill baker	173	roller, paper	178
roaster, arsenic	171	rod mill furnaceman	171	roller (paper tubes)	178
roaster, arsenic tin	171	rod mill furnaceman, wire	171	roller, paragon frame	178
roaster, chestnut	777	rod mill heater, wire	171	roller, pen steel	178
roaster, chimney	443	rod mill hooker, wire	279	roller, piece (carpeta)...	393
roaster, cocoa	443	rod mill lifter-up	279	roller, piece (textile warn- house)	943
roaster, cocoa bean	443	rod mill roller	178	roller, pin	943
roaster, coffee	443	rod mill roller, wire	178	roller (pins)	943
roaster, (coffee ore)	171	rod mill straightener	279	roller, plate	178
roaster, fume (lead smelting)	121	rod pointer	279	roller (plate mill)	178
roaster, gall	149	rod pointer	279	roller (printer's)	178
roaster, malt	452	rod punber, fishing	698	roller, puddle	178
roaster (metal)	171	rod ring maker	278	roller, padded bar	178
roaster, oat	448	rod roller	178	roller, rail	178
roaster, ore	171	rod roller, copper	178	roller, ram	178
roaster, potato	777	rodman	149	roller, rod mill	178
roaster, tin	171	rod sizer	279	roller (rolled oats)	178
roaster furnaceman	171	rod worker	472	roller, roughing	178
roaster man (chemicals)	143	rod attendant, cold (iron and steel rolling)	279	roller, roughing mill	178
roaster man (copper ore)	171	rod blocker (tapes)	943	roller (rubber)	698
roaster man (paper manufac- ture)	143	rod boy, cold (iron and steel rolling)	279	roller, sand	163
roaster man, powder	581	rod cat, cold	279	roller, section	178
roaster man, salt cake	143	rod changer	279	roller, sheet	178
roaster man, soda	405	rod chopper	483	roller, sheet lead	178
roba hard	405	rod coeder	468	roller, sheet mill	178
roba maker, clerical	404	rod, aluminium foil	178	roller, side	178
roba maker (dremaking)	405	rod, aluminium sheet	178	roller, silica	989
roba maker, infant's	419	rod, back	178	roller (silk finishing)	393
roba maker, law	404	rod, beam	448	roller, silver	291
roba maker (tailoring)	404	rod, ball (sugar confec- tionary)	435	roller, Spanish leather	335
rock blower (road making)	947	rod, bar	178	roller, spindle	178
rock blower (road repairing)	947	rod, barrel (rolling mill)	178	roller (steel)	178
rock borer	072	rod, barrel (tube drawer)	279	roller, strip steel	178
rock breaker (contractor's)	581	rod, hatch	340	roller, submachine	178
rock breaker (metal mine)	056	rod, bayonet blade	178	roller (suits)	433
rock crusher man	056	rod, bitumen	340	roller, sword blade	178
rock cutter	072	rod, black egl	340	roller, tapered strip	178
rock drill (metal mine)	054	rod, black	609	roller (tops, do.)	949
rock drill (slate mine or quarry)	073	rod, black	178	roller, test	178
rock drill man (metal mine)	054	rod, blocking mill	178	roller (textile warehouse)	943
rock drill man (stone mine or quarry)	072	rod (bookbinder's)	532	roller, thread (screws)	279
rock drill worker	054	rod (hoof leather)	429	roller, trolley	549
rock engraver	279	rod, brass	178	roller, tin foil	178
rock (sand)	183	rod, brass sheet	178	roller (tin plate)	178
rockot charger	149	rod, butter	340	roller, tube (paper)	339
rocket filler	149	rod, caramel	340	roller (tube)	178
rock feeder	056	rod (card and pasteboards)	518	roller, tyre	178
rock filler (stone)	056	rod (carpeta)	399	roller, under	178
rock foreman	072	rod, case	558	roller, underhand	379
rock getter, gasifier	078	rod, case metal (precious metal)	298	roller (wadding manufacture)	189
rock getter (rock salt, barrytes, etc.)	078	rod, case metal (rolling mill)	178	roller, wedge	178
rock getter (stone mine or quarry)	072	rod, case	459	roller, wheel	178
rock hand (stone mine or quarry)	072	rod, chocolate	613	roller, wheel rim	178
rock hand (sugar confec- tionary)	435	rod, (cocoa)	613	roller, wire rod mill	178
rock header	072	rod, cigar	468	roller, zinc	178
rocking horse maker	943	rod, cigar making	468	roller and bloomer	178
rock man (coal mine)	047	rod, clay	119	roller and printer, butter	448
rockman, gypsum	047	rod, clay tobacco pipe	119	roller and squarer (hot leather)	318
rockman (metal mine)	064	rod, capping	178	roller attendants (celluloid)	638
rockman (slate mine or quarry)	054	rod, card (paper making)	518	roller bracer	399
rockman, top	073	rod, cold (rolling mill)	173	roller carrier (paper spinning)	549
rock miner	047	rod, copper	178	roller changer (textile print- ing)	399
rock quarrier (slate)	073	rod, copper plate	178	roller changer (wall paper printing)	549
rock ripper (coal burner)	072	rod, copper rod	178	roller cleaner (coal mine)	947
rock ripper (edlery road making)	044	rod, copper sheet	178	roller cleaner (textile mill)	399
rock salt borer	078	rod, cross	298	roller coupler (textile machi- ery)	278
rock salt ferrier	078	rod, cutlery	178	roller coverer, sugar	888
rock salt loftman	078	rod, roller (celluloid, lega)	279	roller coverer (leather)	346
rock salt miner	078	rod, roller, edge, tool	178	roller coverer, leather	346
rock salt picker	078	rod, roller, finishing	362	roller coverer, printer's	888
rock salt roofer	078	rod, roller, flannelette	394	roller coverer (textile ma- chinery)	608
rock salt shaftman	078	rod, roller, flax	362	roller coverer (tyra)	602
rock salt striker	078	rod, roller, forge	178	roller coverer and cleaner	346
rockwork builder	078	rod, roller, gasifier	698	roller cutter	257
roller	457	rod, roller, gold and silver	298	roller engraver, copper	230
roller-off (straw plait)	429	rod, roller, guide	178	roller engraver (pantograph)	257
rod drawer, zinc	263	rod, roller, hand hemp	362	rollerer, buckle	279
rod examiner, fishing	698	rod, roller (handmade paper)	518	roller ether	257
rod faucher	698	rod, roller, head	178	roller floor head	638
rod fisher, fishing	279	rod, roller, bump	362	roller fluter	260
rod booker	278	rod, roller, cold (printer's)	548	roller fruster, beam	200
rod booker	278	rod, roller, cold (rolling mill)	173	roller gear and crane roller...	279
rod machine hand (cineoid)	918	rod, roller, iron bar	178	roller gear boy	279
rod maker, cleaning	279	rod, roller, lamplash	159	roller girl (parchment con- tainers)	599
		rod, roller, lead	178		
		rod, roller, lead sheet	178		
		rod, roller (leather dressing)	338		
		rod, roller (leather leces)	338		
		rod, roller, line	380		
		rod, roller, marzipan	435		

Code Number.		Code Number.		Code Number.	
roller grinder	354	rolling runner-through, guide	178	ropeman (railway)	706
roller hardener tenter	378	rolling stock outsider	708	rope minder (coal mine)	543
roller lad (coal seed)	159	rolling stock inspector	700	rope minder, endless	543
roller lad (rolling mill)	279	rolling stock porter	706	rope minder (metal mine)	548
roller lad (textile finishing)	384	rolling stock superintendent	714	rope reeler	390
roller machine man	343	rolling straightener, guide	278	roper, foreman	700
roller machinist (celluloid)	518	rollway driver	043	rope rider	043
roller maker (bag, trunk)	345	rollway lad	043	roper (packer)	948
roller maker, bind	486	rollway man	043	roper (railway)	700
roller maker, carriage (textile machinery)	264	roll maker, dandy	575	rope runner (building)	700
roller maker, copper	180	roll maker, granite	575	rope runner (coal mine)	043
roller maker, hoary	436	roll maker, mastic	558	rope runner (colliery wharf)	744
roller maker, mangle	496	roll maker, tool	348	rope runner (gas works)	699
roller maker, rubber	608	roll make-off	488	rope runner (public works)	581
roller maker, stone	105	rollman (pipe)	279	rope runner (metal mine)	064
roller maker (textile machinery)	200	roll moulder	180	rope runner (railway)	706
roller maker (wood)	498	roll ragger (rolling mill)	200	rope runner (stone mine or quarry)	672
rollerman, angle	159	roll rougher, cold (iron and steel rolling)	279	ropemith	047
rollerman (sheet maker)	433	roll shifter	212	rope reaper	399
rollerman (card and paste-board)	518	rolls man, cross (tubes)	278	rope spinner, hay	639
rollerman, copper	178	roll tender, cold (iron and steel rolling)	279	rope spinner, straw	639
rollerman (copper plate mill)	178	roll tracer, granite	575	rope spinner (textile)	385
rollerman (copper sheet mill)	178	roll turner	164-165	rope spinner (wire)	269
rollerman (hour mill)	432	roll turner-off	468	rope splicer (coal mine)	543
rollerman (gramophone records)	648	roll washer	395	rope splicer (railway)	396
rollerman (hand-made paper)	518	roll worker, cold	279	rope splicer, wire	269
roller man (leather dressing)	338	roll worker, hand	399	rope splicer, wire (coal mine)	647
rollerman, manto	433	ronco operator	899	rope walk labourer	399
rollerman, maitsoth	433	roof erector	226	rope walk reeler	399
rollerman (masonry)	448	roofer (coal mine)	044	rope yarn spinner	365
roller man (plate glass)	180	roofer, felt	570	rope yarn spinner	365
rollerman (plaster's helper)	223	roofer, iron	226	rop man	448
rollerman, press	518	roofer, rock salt	078	rop scraper	448
rollerman (seed crushing)	159	roofer, sheet asphalt	570	rose engine turner	283
rollerman (steel)	178	roofer, volcanic	570	rose grower	013
rollerman (tin plate)	178	roofer, zinc	226	rosette maker	344
rollerman (tube drawing)	266	roof drier	226	roster	429
roller man (white lead)	149	roof hand	474	rotia maker	158
roller mill band	045	roofing engineer	226	rotary hammer	062
roller-off (leather)	338	roofing engineer, iron	226	rotary cutter	518
roller-off, pitwood	745	roofing erector, galvanised	226	rotary cutting machine band	279
roller-on	338	roofing glazier, patent	226	rotary finger (gloves)	374
roller-out (liquorice)	435	roofing layer, volcanic	570	rotary frame band	374
roller-over (horns)	279	roofing tile maker	102	rotary furnaceman	171
roller paper	549	roofman (cement tub)	044	rotary hand	374
roller picker	399	roofman (pest fuel)	099	rotary kiln burner	692
roller pin maker	324	roof panel maker, concrete	070	rotary kiln man	529
roller polisher	238	roof panel maker, fireproof	358	rotary machine minder	211
rollers' assistant (precious metal)	299	roof plaster	226	rotary setter	318
roller's assistant (rolling mill)	178	roof repairer (builder's)	570	rotor maker	368
roller sawyer (steel)	200	roof repairer (coal mine)	044	rotor window	092
roller's helper	178	roof repairer (rolling stock)	474	rough even man	220
roller's second hand	178	roof tiler	570	rough annealer (wire)	474
roller stretcher	278	roof truss maker	044	rough carpenter	570
roller turner, copper	200	rook bay, dirt	044	rough caster, parboiler	567
roller turner (rubber)	608	rook boy (on farm)	044	rough caster (plateholder)	570
roller turner (textile machinery)	200	rook man, dirt	044	rough caster (sloter)	138
roller turner (wood)	486	room girl	429	rougher, axle	280
roller-up (litho)	548	rooster	519	rougher, back	639
roller-up (paper staining)	549	rope grabber	027	rougher, base	468
roller-up (tapes, etc.)	949	rope and chain inspector	041	rougher (log sales)	498
roller washer (printing works)	549	rope block maker	043	rougher, cold roll (iron and steel rolling)	279
roller washer (textile mill)	399	rope boy	043	rougher (flax, hemp)	562
roller builder	475-6	rope boy, endless	043	rougher, furnace	183
roller driver (coal mine)	043	rope cable maker	373	rougher (foundry labourer)	138
roller driver, motor	720	rope changer	043	rougher (glass)	362
roller lad	043	rope ender	043	rougher, hemp	343
roller maker	475-6	rope follower	399	rougher (leather belt)	138
rollerman (coal mine)	043	rope farmer	373	rougher, lens	178
rollerman (horse driver)	719	rope graves	047	rougher (rolling mill)	466
rollway driver	043	rope guider (metal mine)	054	rougher, loam	466
rollway lad	043	rope halter maker	388	rougher-down (rolling mill)	178
rollway man (colliery)	043	rope inspector (coal mine)	041	rougher-down (wire drawer)	268
rollway man (metal mine)	054	rope inspector, bandage	041	rougher-out, axle	200
roll foundry labourer	183	rope insulator (metal mine)	051	rougher-out, flyer	190
roll fluter (rolling mill)	200	rope lad, endless (coal mine)	054	rougher-up	178
roll girl, cold (tinplate)	279	rope lad, endless (metal mine)	054	rough etcher	526
roll girl, mulling	519	rope layer (textile walk)	064	rough finisher	385
rolling backer, guide	176	rope layer, wire	269	rough fitter (bedstead)	278
rolling carcer	363	rope maker, assistant	573	rough fitter (engineering works)	210
rolling frame man	543	rope maker (house machine)	373	rough grinder	237
rolling machine attendant, butler	449	rope maker (steel)	269	rough grinder, tool	237
rolling machine attendant, plate	178	rope maker, straw	639	roughing booker	178
rolling man (finishing)	384	rope maker, wire	269	roughing master	359
rolling man (textile warehouse)	943	rope maker on band line walk	269	roughing mill roller	178
rolling mill attendant	212	rope man (coal mine)	043	roughing roller	178
rolling mill engine driver	910	rope man, endless	043	rough leader	279
rolling mill labourer	279	ropeman (fishing boat)	000	rough machine man	379
		ropeman (metal mine)	054	rough mender (biery)	949
		ropeman, net (drifter)	000	rough packer (felt hats)	582

	Code Number.		Code Number.		Code Number.
rough plate caster	138	rubber, rubbing stone	575	rubber worker, india	608
rough rider	725	rubber, seam	429	rubber worker, mechanical	608
rough rounder (bate)	429	rubber, stone (mason's labourer)	575	rubbing brick maker	575
rough slag loader	599	rubber, stone (scythstone)	575	rubbing stone maker	575
rough stone breaker	575	rubber, ware	118	rubbing stone rubber	575
rough stuff cutter	413	rubber, wire	226	rubbish carrier	719
rough stuff man	414	rubber (wood)	499	rubbish carter	719
rough turner	206	rubber appliances maker	608	rubbish cleaner	673
rough warehouseman	940	rubber ball maker	608	rubbish emptier (steel works)	279
rounder (bookbinding)	532	rubber belting maker	608	rubberer	673
rounder (boot, shoe)	414	rubber black cutter (card clothing)	609	rubbish man	673
rounder, brim	409	rubber calenderer	609	rubbish nipper	609
rounder, chief	498	rubber canvaser	608	rubbish unloader (coal mine or quarry)	673
rounder (cloz soles)	498	rubber cleaner	609	rubble burster	673
rounder, cork	638	rubber coverer (surgical)	609	rubble dresser	673
rounder (follmongery)	338	bandage	602	rubber	673
rounder, grindstone	575	rubber crusher	609	rubble trailer	673
rounder, mangle	414	rubber cutter	609	rub board man	380
rounder, ivory	618	rubber cutter, card clothing	609	ruby cutter	638
rounder (leather)	333	rubber cutter (textile machin- ary)	609	ruby mounter	234
rounder, middlesole	414	rubber-down (boots)	429	ruby pin maker	324
rounder, outsole	414	rubber-down (brunt)	449	rucker (blast furnace)	279
rounder (penola, etc.)	499	rubber-down (jewellery or plate)	385	rudder	673
rounder (peza)	254	rubber-down (painter's)	399	rudder	673
rounder, rough (bate)	429	rubber-down (wood)	499	rug brooder	308
rounder, sole	414	rubber drawer	608	rug dyer, skin	335
rounder (tubes)	273	rubber garment maker	608	rug finisher	384
rounder, warehouse	338	rubber goods maker	609	rug fringer	419
rounding machine	499	rubber goods worker	608	rug maker (cloth cuttings)	396
rounding machine, turn	409	rubber grinder	608	rug maker, fur	332
round knife cutter	342	rubber heel maker	608	rug maker (woven)	370
roundman sewer (gloves)	411	rubber heel moulder	602	rug porter	706
roundman	776	rubber hose hand	609	rug worker	370
round timber loader	706	rubber machinist	419	rule cutter	279
rouser	437	rubber machinist, india	419	rule finisher	498
rouser (block or roller cutting)	486	rubber maker, dental	608	rule framer	498
router, foundry	279	rubber maker, hard	602	rule maker, mathematical	322
router (printing works)	548	rubber maker, medical	609	rule maker, parallel	322
router (railway)	706	rubber makot, valve	608	rule, account book	533
rove cart	389	rubber maker, vulcanite	602	rule, machine	533
rove lad	389	rubber man, dry	602	rule (paper)	533
rover, asbestos	363	rubber man, wet	602	rule, paper	533
rover, back (jute)	363	rubber masticator	608	rule, printer's	533
rover (cotton)	363	rubber mat maker	608	rule (textile printing)	257
rover, dandy	363	rubber mat puncher	609	rule's feeder	530
rover (flax, hemp)	363	rubber mill hand	608	rule rubber	499
rover, front (jute)	363	rubber minder	609	rule machine feeder	530
rover, gill	363	rubber mixer (masticating machine)	609	rule machine minder	533
rover (jute)	363	rubber mixer (uncoated rub- ber)	602	rule	706
rover (silk)	363	rubber moulder	602	rule checker	533
rover (tape)	363	rubber-off (foundry labourer)	183	ruley man	183
rover (wool)	363	rubber-off (glass)	139	run and vinegar jar maker	719
rover back tenter	399	rubber packing maker	608	runble (brass spinning and finishing)	279
rover feeder (jute)	399	rubber piercer (card clothing)	608	runble (foundry labourer)	183
rover minder	363	rubber piercer, card clothing	608	runble, mother of pearl	619
rover-out (tape)	399	rubber powder man	602	runble, pearl	619
rover tenter	363	rubber presser	602	runble, smoking barrel	943
rova shifter	363	rubber pressman	602	runble boy	448
rotting back tenter	399	rubber roller maker	608	runkeeper	448
rotting box minder	363	rubber slipper maker	608	run leader	643
rotting can minder	254	rubber sole maker	602	runlet cooper	477
rotting carrier	399	rubber solutioner	608	runman (cereal foods)	448
rotting fletcher	399	rubber solutionist	608	runner, bar	279
rotting flyer maker	199	rubber sorter	608	runner, barrow (blast furnace)	279
rotting frame back tenter	399	rubber spreader	602	runner, barrow (contractor's labourer)	581
rotting frame creeler	399	rubber spreader, card cloth- ing	602	runner, bearing	279
rotting frame doffer	399	rubber stamper	608	runner, bobbin	619
rotting frame little tenter	399	rubber stamp maker	608	runner, bogie (chemical works)	149
rotting frame minder	363	rubber surgical hand	608	runner, bogie (metal mine)	654
rotting frame tenter	399	rubber tile maker (moulding)	602	runner, bogie (metal works)	279
rotting layer-on	399	rubber tile maker (stamping)	609	runner, bogie (rock salt, barytes, etc.)	676
rotting lizer	399	rubber tread maker	608	runner, bookmaker's	380
rotting lug	399	rubber trimmer	609	runner (borer)	380
rotting minder	363	rubber tyre fitter	609	runner, carriage	139
rotting piler	399	rubber tyre maker (pne- matic, solid)	602	runner, carrier's	719
rotting putter-in	399	rubber tyre worker	659	runner, chain	943
rotting setter-on	399	rubber-up (boots)	429	runner (chalk, clay, etc.)	599
rotting tenter	363	rubber-up (feed making)	279	runner, chute	399
rotting coach	499	rubber varnisher	608	runner, clay	119
royalty agent	040	rubber warper	367	runner (coal mine)	643
royalty master	040	rubber washer	609	runner (coke works)	609
royalty owner	040	rubber washer and cleaner	609	runner, coke (blast furnace)	279
rubber, blount	118	rubber weigher	608	runner, coke (coke works)	609
rubber (cloth)	159	rubber winder, elastic	608	runner, coke (gas works)	699
rubber (compound cake)	159	rubber winder (elastic thread)	367	runner, collar	943
rubber, crumby belt	238	rubber worker	608	runner, cone	745
rubber (files)	273	rubber worker (aeroplane)	608	runner, cosmetic	043
rubber, gloss	118	rubber worker, hard	608	runner, caddy	643
rubber (laminated or enamel- led ware)	245	rubber worker, hard (before vulcanisation)	602	runner (deck hand)	745
rubber (jewellery and plate)	261			runner (dock labourer)	745
rubber (linoleum, oilcloth)	638			runner, dock	943
rubber (metal polishing)	638				
rubber (metal trades)	279				
rubber (needles)	220				
rubber (painter's)	599				
rubber, painter's	599				
rubber, picker	319				
rubber, quill (feather dress- ing)	639				

	Code Number.		Code Number.		Code Number.
runner (drifters) ...	749	runner-through, guide rolling	178	safe maker (wood) ...	474
runner, drill ...	472	runner-through (wire rod mill)	279	safe painter ...	592
runner, edge ...	519	runner-up (rope) ...	399	safe stuffer ...	279
runner, end ...	183	runner-up (stitcher) ...	419	safety fuse maker ...	149
runner (explosives) ...	149	running department inspector	700	safety lamp keeper ...	447
runner, fish ...	745	running foreman ...	700	safety pin machine hand	254
runner, fish salesman's ...	749	running repairer (tramway		sagger batter-out ...	118
runner, floor ...	448	cars) ...	658	sagger bottom knocker ...	118
runner (four confectionery)	448	running shed foreman ...	700	sagger frame filler ...	118
runner, egg ...	384	running shed superintendent	700	sagger maker ...	118
runner (glass) ...	139	running superintendent, loco	780	sagger maker's assistant	118
runner, gum (gum maker) ...	139	running superintendent, loco-		sagger maker's attendant	118
runner, gum (varnish) ...	153	motive ...	780	sagger washer ...	107
runner, haboken ...	843	run-over box minder ...	363	sail-cloth grinder ...	419
runner, horse auctioneer's ...	570	run rider (coal mine) ...	843	sailmaker, fire ...	419
runner, hutch ...	843	run rider (stone mine or		sail maker's needle maker	278
runner, lime ...	899	quarry) ...	472	sailor (on board ship) ...	735
runner, liquor ...	339	rural postman ...	753	sailor (shipyard) ...	669
runner, liquor (charge hand)	333	rush boulder ...	472	sailor gang labourer (metal	
runner, machine ...	139	rusher, chair ...	472	works) ...	279
runner (messenger) ...	758	rusher, rule ...	499	sailor gang labourer (shipyard)	669
runner, monkey (rolling mill)	279	rush peeler ...	499	sailer helmsman ...	735
runner, mould ...	119	rush plaster ...	472	sailer labourer ...	279
runner, nicker and turner's ...	279	rush worker ...	472	sailorman (metal trades)	279
runner, pan (pig iron) ...	278	rustic carpenter ...	498	sailorman (shipyard) ...	669
runner, pile (rolling mill) ...	279	rustic wood worker ...	498	sailor's labourer	669
runner, pit head ...	449	rustic work ...	498	sailor's palm maker ...	348
runner, plate ...	843	rustic work maker ...	498	sail sheet dresser ...	418
runner, pot (steel works) ...	279			sail sheet-maker ...	418
runner (pottery) ...	119			sail sheet repairer ...	418
runner, rags ...	843			sales engineer (electricity)	590
runner, rake ...	843			sales engineer (engineering	
runner, ribbon ...	429			firm) ...	770
runner, rope (builder's				salesman (auctioneer)...	796
labourer) ...	589			salesman, collector ...	714
runner, rope (coal mine) ...	843			salesman, fish ...	796
runner, rope (colliery wharf)	744			salesman, lead ...	796
runner, rope (gas works) ...	889			salesman, market ...	777
runner, rope (metal mine) ...	854			salesman (merchant)	770
runner, rope (public works) ...	581			salesman, powder (metallur-	
runner, rope (railway) ...	706			our mines) ...	941
runner, rope (stone mine or				salesman (shop assistant)	775
quarry) ...	872			salesman (traveller) ...	773
runner, sawyer's ...	279			salesman, travelling ...	773
runner (screws) ...	279			salesman, van ...	778
runner (shale burning) ...	149			sales manager ...	770
runner, shoes (silk weft) ...	399			sales superintendent (elec-	
runner, ship ...	399			tricity supply) ...	690
runner, small (coke works) ...	889			saleswoman ...	775
runner, small (messenger)				sale weaver ...	472
runner (steel works) ...	279			sale worker ...	472
runner, steam ...	279			sale baker ...	949
runner (stone mine or quarry)	872			sale finisher ...	518
runner, tail ...	843			sale sorter ...	518
runner (textile mill) ...	399			sally winder (wood)	367
runner, tip and lining (hats)	429			salmon fisherman	690
runner, tool ...	279			salmon fly maker ...	888
runner, train ...	843			salmon attendant ...	702
runner, tube ...	709			salmon attendant, cloth	702
runner (tubes, iron and steel)	279			salmon boy ...	237
runner, vat ...	143			salmon steward ...	737
runner, wagon (blast furnace)	275			salmon tugs ...	737
runner, wagon (railway) ...	704			salt boiler ...	698
runner (warehouse) ...	942			salt cake decomposing pan	
runner, water ...	741			man ...	143
runner, wire ...	319			salt cake furnaceman ...	143
runner, wood ...	399			salt cake maker ...	143
runner, warmer's ...	279			salt cake man ...	143
runner-away (gas works) ...	699			salt cake resister man	143
runner-down (rolling mill)	279			salt conveyor attendant	139
runner hand, can ...	399			salt drawer ...	698
runner-in (brewery) ...	453			salt dryer ...	399
runner-in (metallic bedstead)	279			salt fish ...	437
runner-in (stone mine or				salt (leather) ...	333
quarry) ...	872			salt filler ...	699
runner-in (wool weaving) ...	399			salt filler (sulphate crystals)	149
runner maker (foundry) ...	103			salt fireman ...	696
runner maker, safe ...	103			salt heater ...	744
runner maker (steel manufac-				salt loader ...	699
tore) ...	279			salt lump maker ...	698
runnerman (dock labourer) ...	745			salt maker ...	698
runner man (steel works) ...	279			salt man (alkali) ...	149
runner-off (gas works) ...	699			salt man (coke oven) ...	143
runner-off (gas, steel) ...	119			salt millman ...	699
runner-off (hoistery) ...	374			salt pan trower ...	255
runner-off (warping room) ...	367			salt penmith ...	190
runner-on (coal mine) ...	843			saltpetre man ...	143
runner-on (hoistery) ...	374			saltpetre refiner ...	143
runner-out (clay, marl pit,				saltpetre refinery man	143
&c.) ...	874			salt rammer ...	699
runner-out (iron and steel				salt trimmer ...	699
rolling) ...	279			salt washer, crude glycerine	149
runner-out (sugar confection-				salt washer (glycerine)	149
ery) ...	435			salvage labourer ...	770
runner plaster ...	138			salvage officer ...	738
runner-round (boats) ...	429			salvage rigger (salvage com-	
runner-round (wire rod mill)	279			pany) ...	749
runner-through (guide mill)...	178			S/Am. maker ...	143
				summer ...	334

	Code Number.		Code Number.		Code Number.
sample boy (cement) ...	099	sand mixer ...	163	saw handler ...	279
sample boy (messenger) ...	758	sand moulder ...	160	sawing machine worker ...	279
sample boy (sugar refining) ...	449	sand moulder, dry ...	160	saw maker ...	278
sample bruiser ...	056	sand moulder, green ...	160	saw maker, hand ...	278
sample carrier (porter) ...	759	sandpaperer, bobbin ...	499	saw maker, hack ...	278
sample carrier (steel foundry) ...	279	sandpaperer (celluloid &c.) ...	619	sawman, hack ...	279
sample catcher ...	398	sandpaperer, clay tobacco pipe ...	119	sawman (cold) ...	279
sample checker ...	278	sandpaperer (wood) ...	499	saw man, hot ...	278
sample cutter ...	398	sand papering machinist ...	499	sawman (iron and steel roll- ing) ...	279
sample drawer ...	278	sand paper machine hand ...	499	sawing, tube ...	279
sample drill ...	200	sand paper maker ...	098	saw miller ...	200
sample hand ...	408	sand preparer ...	163	saw mill labourer ...	499
sample maker (cables) ...	318	sand riddler (brass, bronze foundry) ...	185	saw mills machinist (wood working machinist) ...	486
sample maker (bandkarchiefs) rich) ...	949	sand riddler (iron and steel foundry) ...	163	saw piercer (art metal worker) 221	
sample maker's assistant (cables) ...	319	sand riddler (pit worker) ...	074	saw piercer (gold and silver) 264	
sample man (porter) ...	759	sand roller ...	163	saw piercer (jewellery and plate) ...	286
sample man (warehouse) ...	789	sand stock brick maker ...	162	saw plate straightener ...	278
sample passer ...	278	sandstone quarrier ...	072	saw setter, diamond ...	138
sample porter ...	745	sand table man ...	519	saw setter (metal work) ...	278
sample refiner ...	056	sand washer (glass) ...	139	saw setter-out ...	278
sampler (artificial stone) ...	099	sand washer (water works) ...	099	saw sharpener ...	278
sampler (blast furnace) ...	278	sand wheeler ...	370	saw sharpener and setter ...	278
sampler, cement ...	098	sand wheeler (foundry) ...	143	saw softener ...	220
sampler (chemical works) ...	098	sand wheeler (glass) ...	139	saw smith ...	278
sampler (coal, patent fuel, pitch) ...	096	sand wheeler (metal works) ...	279	saw straightener ...	278
sampler, cocoa ...	448	sandwich maid ...	900	saw tangler ...	278
sampler (copper smelting) ...	278	sandwichman ...	970	saw tang maker ...	199
sampler, corn ...	789	sanitary appliance maker ...	105	saw tooth ...	254
sampler, cotton ...	789	sanitary bricklayer ...	565	saw toother, hack ...	481
sampler (dock company) ...	740	sanitary castor ...	105	saw worker, fret ...	481
sampler, dock (dock com- pany) ...	740	sanitary dipper ...	107	saw worker, hot ...	278
sampler, grain (dock) ...	740	sanitary ironman's filler ...	210	sawyer, accumulator ...	319
sampler, grain (warehouse) ...	789	sanitary fitter (pottery mak- chinery) ...	210	sawyer, hack (metal work) ...	279
sampler, hop ...	789	sanitary inspector (railway) ...	700	sawyer, hack (saw mill) ...	481
sampler (metal mine) ...	056	sanitary inspector (water- works) ...	692	sawyer, hand mill ...	481
sampler, mineral ...	278	sanitary jigger ...	105	sawyer (bone, horn, &c.) ...	619
sampler, nickel ...	278	sanitary labourer ...	970	sawyer, bone (manure) ...	149
sampler, ore (metal mine) ...	054	sanitary man ...	054	sawyer, bone (tooth brushes) ...	619
sampler, ore (metal works) ...	278	sanitary mason ...	581	sawyer, brass rule ...	279
sampler (sugar refining) ...	449	sanitary miner ...	581	sawyer, brush ...	481
sampler, sweep ...	296	sanitary pipe carrier ...	119	sawyer, circular ...	481
sampler, tallow ...	159	sanitary pipe fitter ...	195	sawyer, cold ...	279
sampler, tea ...	789	sanitary pipe layer ...	581	sawyer, colliery ...	481
sampler (tinplate) ...	278	sanitary pipe machinist ...	186	sawyer (cooperage) ...	481
sampler, warehouse ...	789	sanitary pipe maker ...	186	sawyer, copper tube ...	279
sampler, wood ...	789	sanitary placer ...	109	sawyer, cross cut ...	481
sampler, zinc ...	278	sanitary plumber ...	252	sawyer (diamond) ...	638
sample taker ...	056	sanitary presser ...	105	sawyer, diamond ...	638
sanatorium proprietor ...	912	sanitary tube maker ...	186	sawyer, enamelled slate ...	576
sand bag maker ...	417	sanitary vessel maker ...	186	sawyer, frame ...	481
sand blaster, bayonet ...	259	sanitary ware maker ...	186	sawyer, fret ...	481
sand blaster (files) ...	259	sapphire cutter ...	838	sawyer, front ...	279
sand blaster (foundry) ...	259	Sarracenia trunk maker ...	474	sawyer, horizontal ...	481
sand blaster (glass) ...	136	sardine preserver ...	448	sawyer, hot ...	278
sand blaster (jewellery, plate, &c.) ...	296	sarsaparilla maker ...	458	sawyer, iron ...	278
sand blaster (wood) ...	499	sash line maker ...	373	sawyer, ivory ...	618
sand blast labourer ...	279	sash maker, window ...	474	sawyer, jig ...	481
sand blast operator ...	259	sash tool maker ...	633	sawyer, log band ...	481
sand blower ...	259	satchel finisher ...	345	sawyer (marble, enamelled marble) ...	575
sand buffer ...	238	satin finisher (metal polishing) 238		sawyer (metal works) ...	279
sand burner ...	139	saturator (cement) ...	099	sawyer, mill ...	481
sand casiner (steel works) ...	279	saturator man ...	143	sawyer, packing case ...	481
sand casier (brass, bronze foundryman) ...	184	sauce boiler ...	449	sawyer (pencil factory) ...	481
sand casier (brass moulder) ...	180	sauce cook (hotel, &c.) ...	900	sawyer, pit ...	481
sand digger ...	074	sauce cook (ship) ...	737	sawyer, pit prop ...	481
sand dresser, dry ...	163	sauce maker ...	449	sawyer, plate (accumulator) 319	
sand dresser, green ...	181	sauce maker ...	105	sawyer, push bench ...	481
sand dryer (railway) ...	709	sawyer maker ...	448	sawyer, rack ...	481
sand dryer (steel works) ...	279	sawyer case maker ...	448	sawyer, rail ...	278
sand dryer (trainways) ...	729	sawyer casing cleaner ...	448	sawyer, railway sleeper ...	481
sander, bone ...	619	sawyer carings dresser ...	448	sawyer (rod) ...	606
sander (celluloid, arisoid, &c.) ...	619	sawyer filler ...	448	sawyer, roller (steel) ...	200
sander (enamelled marble) ...	576	sawyer linker ...	448	sawyer (rolling mill) ...	278
sander, enamelled slate ...	576	sawyer maker ...	448	sawyer (saw mill) ...	481
sander, engine ...	447	sawyer meat mincer ...	448	sawyer (slate) ...	576
sander, heel (boots) ...	429	sawyer skin cleaner ...	448	sawyer, slate ...	576
sander (jewellery and plate) ...	285	sawyer skin dresser ...	448	sawyer, steel ...	279
sander (metal polisher) ...	238	sawyer skin maker ...	448	sawyer, stick ...	481
sander (wood) ...	499	sawyer bank agent ...	731	sawyer (stone) ...	575
sander at saw ...	575	saw becker ...	279	sawyer, stone ...	575
sander in tinhouse ...	279	saw back drier ...	279	sawyer, swedge ...	575
sand faced brick maker ...	102	saw back maker ...	279	sawyer, swing cross cut ...	481
sand filler ...	139	saw bench hand ...	279	sawyer, tube ...	279
sand furnaceman (steel works) ...	279	saw dooler ...	278	sawyer, vertical frame ...	481
sand grinder (foundry) ...	163	saw driver ...	279	sawyer (whalebone) ...	618
sand grinder (steel works) ...	279	saw dust grinder ...	519	sawyer, whip ...	481
sand hooker ...	738	saw engineman ...	279	sawyer, wood ...	481
sanding machine operator ...	238	sawyer, back ...	279	sawyer, wood block ...	481
sand loading ganger ...	561	sawyer, rail ...	278	sawyer, wood paving block ...	481
sand man (china clay pit) ...	074	saw file forger ...	180	sawyer, wood pulp ...	481
sand man (railway) ...	709	saw file ...	233	sawyer, wood pulping ...	481
sandman (trainways) ...	729	saw finisher ...	278	sawyer machinist ...	279
		saw gill ...	279	sawyer's labourer ...	499
		saw hammerer ...	278	sawyer's mate ...	499

Code Number.		Code Number.		Code Number.	
awyer's rubbing bed hand ...	573	school porter ...	917	scourer, velvet schon ...	429
scabboard maker ...	348	schoolroom maid ...	909	scourer, velvet ...	380
scabbler ...	072	schreiner ...	384	scourer, velvet ...	429
scabbler, block ...	072	schreinerman ...	384	scourer (wood bleaching) ...	499
scabfold binder ...	564	schub man ...	143	scourer (wool bleaching) ...	380
scaffold (builder's) ...	564	schyl (shive) cleaner ...	638	scourer, wool (cloth) ...	384
scaffold, frame ...	589	schyl (shive) polisher ...	638	scourer, wool (raw material) ...	361
scaffold rigger ...	564	schyl (shive) and chemical glass ...	638	scourer and cleaner, ball ...	259
scaly ...	042	blower ...	124	scouring machine man ...	380
scalded cream maker ...	484	scientific instrument dealer ...	770	scout (Automobile Association ...	729
scale adjuster ...	260	scientific instrument maker, ...	322	or Royal Automobile Club) ...	829
scale beam fitter ...	260	mechanical ...	322	scout (colleges) ...	729
scale beam forger ...	190	scissors blade grinder ...	237	scout, cyclist ...	729
scale beam maker ...	260	scissors borer ...	200	scout, motor ...	729
scaleboard box maker ...	496	scissors dresser ...	278	scout, motor cyclist ...	729
scaleboard collector ...	496	scissors fitter ...	278	scrabbler ...	072
scaleboard cutter ...	496	scissors forger ...	190	scragger, spring ...	278
scaleboard maker ...	496	scissors hardener ...	220	scrap breaker (scrap metal) ...	279
scale box maker ...	496	scissors putter-together ...	278	scrap breaker (steel maquina- ...	279
scale brush maker ...	496	scissors smith ...	190	ture) ...	279
scale cleaner ...	533	scissors wiper ...	237	scrap broker ...	770
scale cleaner (iron and steel ...	279	scissor (glass) ...	942	scrap handler ...	279
rolling) ...	279	scissor (lace, net) ...	124	scrap cleaner ...	279
scale cutter ...	613	scissor (pottery) ...	385	scrap cutter ...	279
scale hand (rifle) ...	399	scissor (pottery) ...	105	scraper, bark ...	499
scale maker (balance) ...	260	scissor baker ...	433	scraper, boiler ...	362
scale maker, coupler ...	260	scissor maker ...	433	scraper, horse ...	159
scale maker, wood (piano) ...	489	scoop driver ...	693	scraper (cask) ...	477
scaleman (bakery) ...	449	scoop (centrifugal machine) ...	449	scraper (cement) ...	099
scaleman (iron and steel roll- ...	279	scoop maker (coupler scales) ...	264	scraper, clay ...	119
ing) ...	279	scoop maker, scale ...	254	scraper (culinary) ...	279
scaleman (ironfoundry) ...	279	scoreboard (cutlery) ...	237	scraper (copper) rolling ...	279
scaleman (railway) ...	705	scoreboard (stick making) ...	484	scraper, leather ...	638
scaleman (shop assistant) ...	775	score, bone ...	618	scraper (for painter) ...	599
scale member ...	469	score, cricket ...	699	scraper, gut ...	448
scale miller ...	254	score (cricket match) ...	699	scraper (leather) ...	338
scale pan maker ...	254	score (paper, cardboard) ...	552	scraper (musical instruments) ...	278
scale pillar maker ...	250	scoreboard (quidry) ...	410	scraper, picker (paper mill) ...	519
scale presser ...	613	scoreboard (quidry) ...	267	scraper, picker (textile) ...	399
scale (boiler) ...	362	scoreboard (quidry) ...	410	scraper, rip ...	448
scale, boiler ...	362	scoreboard (quidry) ...	267	scraper, ship ...	448
scale, boiler ...	362	scoreboard (quidry) ...	267	scraper, skin (bacon factory) ...	448
scale, copper sheet (pickler) ...	250	scoreboard (quidry) ...	267	scraper, skin (leather) ...	338
scale, copper sheet (scraper) ...	279	scoreboard (quidry) ...	267	scraper, starch ...	448
scale, economizer ...	362	scoreboard (quidry) ...	267	scraper (stone quarries and ...	589
scale, enamelled sign ...	279	scoreboard (quidry) ...	267	works) ...	589
scale (hollow-ware) ...	279	scoreboard (quidry) ...	267	scraper (tape) ...	399
scale (iron and steel rolling) ...	279	scoreboard (quidry) ...	267	scraper, wharf ...	200
scale (ironwork) ...	399	scoreboard (quidry) ...	267	scraper, wheel ...	200
scale, pig ...	448	scoreboard (quidry) ...	267	scraper, whirl ...	200
scale, position ...	589	scoreboard (quidry) ...	267	scrap furnaceman ...	171
scale (sheet metal) ...	250	scoreboard (quidry) ...	267	scrap gatherer (shipbuilding) ...	279
scale, ship ...	589	scoreboard (quidry) ...	267	scrap gatherer (tin boxes, etc.) ...	279
scale (steel manufacture) ...	279	scoreboard (quidry) ...	267	scrap grinder ...	639
scale repairer ...	260	scoreboard (quidry) ...	267	scrap lad (galvanized sheet) ...	279
scale scoop maker ...	264	scoreboard (quidry) ...	267	scrapler ...	072
scaleman (dock, wharf) ...	789	scoreboard (quidry) ...	267	scrap lifter (steel works) ...	279
scaleman (railway) ...	706	scoreboard (quidry) ...	267	scrap man (blast furnace) ...	279
scaleman (shop assistant) ...	775	scoreboard (quidry) ...	267	scrap man (iron and steel ...	279
scaleman (soap) ...	159	scoreboard (quidry) ...	267	rolling) ...	279
scale smith ...	190	scoreboard (quidry) ...	267	scrap metal cutter ...	279
scale stamper (bone, horn, ...	613	scoreboard (quidry) ...	267	scrap metal sorter ...	364
etc., handles) ...	613	scoreboard (quidry) ...	267	scraper (blast furnace) ...	279
scale stamper (metal handles) ...	190	scoreboard (quidry) ...	267	scraper (steel manufacture) ...	279
scale tang hafter ...	496	scoreboard (quidry) ...	267	scraper (textile mill) ...	379
scale wheeler ...	279	scoreboard (quidry) ...	267	scrap picker ...	279
scallop ...	432	scoreboard (quidry) ...	267	scraper ...	279
scallop (clothing) ...	419	scoreboard (quidry) ...	267	scrap piler ...	279
scallop (embroidery) ...	409	scoreboard (quidry) ...	267	scraper ...	072
scallop, underclothing ...	419	scoreboard (quidry) ...	267	scraper, block ...	072
scalper ...	432	scoreboard (quidry) ...	267	scrap porter ...	786
scaling machine worker ...	200	scoreboard (quidry) ...	267	scrap remover ...	279
scapler ...	072	scoreboard (quidry) ...	267	scrap shearer ...	279
scappler ...	072	scoreboard (quidry) ...	267	scrap shop worker (celluloid) ...	519
scappler, block ...	072	scoreboard (quidry) ...	267	scrap sorter (celluloid) ...	519
scarer, bird ...	024	scoreboard (quidry) ...	267	scrap sorter (metal) ...	279
scarer, crow ...	024	scoreboard (quidry) ...	267	scrap tipper ...	279
scarfer (chains) ...	279	scoreboard (quidry) ...	267	scrap wheeler ...	279
scarfer (plates, angles) ...	200	scoreboard (quidry) ...	267	scrap works labourer ...	279
scarf folder ...	429	scoreboard (quidry) ...	267	scratch brusher (jewellery and ...	285
scarf maker ...	419	scoreboard (quidry) ...	267	plate) ...	285
scarifier ...	581	scoreboard (quidry) ...	267	scratch brusher (metal articles) ...	238
scarman ...	279	scoreboard (quidry) ...	267	scratch brush maker ...	633
scarphor ...	200	scoreboard (quidry) ...	267	scratcher (files) ...	238
scarphing machine man ...	200	scoreboard (quidry) ...	267	scratcher (jewellery and plate) ...	285
scarver, kila ...	279	scoreboard (quidry) ...	267	scratcher (metal articles) ...	238
scarver, male ...	399	scoreboard (quidry) ...	267	scratcher hand (Ginseng) ...	539
scarver (steel works) ...	279	scoreboard (quidry) ...	267	scratcher ...	159
scarver (staves) ...	070	scoreboard (quidry) ...	267	screen ...	049
scarver (textile mill) ...	399	scoreboard (quidry) ...	267	screen attendant (coal mine) ...	049
scarver, yard ...	070	scoreboard (quidry) ...	267	screen attendant (stone mine ...	072
scene hand ...	587	scoreboard (quidry) ...	267	or quarry) ...	072
scene shifter ...	587	scoreboard (quidry) ...	267	screen attendant (far ...	099
scene holder ...	587	scoreboard (quidry) ...	267	macadam) ...	099
Schneider kila burner ...	092	scoreboard (quidry) ...	267	screen boy (coal mine) ...	040
scholastic agent ...	771	scoreboard (quidry) ...	267	screen boy (paper mill) ...	519
school agent ...	771	scoreboard (quidry) ...	267	screen engine man ...	850
school playground attendant ...	329	scoreboard (quidry) ...	267		

	Code Number		Code Number		Code Number
screener, barley	458	scroll filer	233	seaman, Trinity House	735
screener, blonde	279	scroll weaver	370	seaman cable hand	319
screener (brewery)	459	scroll weaver's filer	389	seamer (coveys)	454
screener, calamine	279	scrubber, chair	183	seamer, double	256
screener, coal	049	scrubber (floor)	238	seamer, French	419
screener (coal mine)	049	scrubber (leather)	338	seamer, German	419
screener, coal (not at colliery)	970	scrubber (premises)	922	seamer (hosiery)	419
screener, coke	089	scrubber man (gas works)	698	seamer (metal)	254
screener (coke works)	089	scrubber yard attendant	698	seamer, point	419
screener, flite	338	scrubbers man	698	seamer, point machine	419
screener (linen)	379	scruff	171	seamer, rag	399
screener, malt	458	scruff molder	171	seamer, saddle	344
screener (manure)	149	scruff refiner	171	seamer (shirts)	419
screener (metalliferous mine or working)	056	scrutinizer, competition	589	seamer, side	419
screener (rubber)	609	scrutcher	410	seamer (waste)	389
screener (sand, gravel)	574	scudder	338	seaming machine operator	254
screener, seed	159	scuffer	042	seamless hand, circular (plain or ribbed)	374
screener (wool)	352	scuffer	042	seamless hand (plain, ribbed)	374
screen erector	210	scullery maid	900	seamless machine hand	374
screen foreman	041	scullery man (hotel, &c.)	900	seamless machine hand, auto- matic	374
screen girl	040	sculleryman (ship)	737	seamless machine minder	374
screen hand	040	scullery porter	800	seam pater (boats)	424
screen inspector	041	scullion (ship)	737	seam presser (hats, caps)	410
screen keeper	041	scull maker	488	seam presser (tailor's)	404
screen keeper	041	sculptor, architectural	574	seam rubber	429
screen maker, malt	269	sculptor, ecclesiastical	574	seamstress	419
screen maker (not wicker)	472	sculptor, marble	574	seamstress, machine	419
screen maker (wicker)	472	sculptor, monumental	574	seamstress, boat builder	419
screen man, breeze	089	sculptor's painter	574	searcher, barge	749
screenman (coal mine)	040	seum boiler	159	searcher, carriage	749
screenman (metal mine or working)	056	seum mixer attendant (sugar refining)	449	searcher, foramen	700
screenman (patent fuel)	029	seuppler	042	searcher, luggage	700
screenman (sand, gravel)	074	seurter, boiler	952	searcher, newspaper	700
screenman (seed)	159	seurter, economiser	952	searcher, piece	379
screenman (stone mine or quarry)	072	seurter (gas)	699	searcher, porter	706
screen motor man	350	seurter, petrol (gas works)	699	searcher (railway)	706
screenman	432	seurter boy (shipbuilding)	952	searcher, sack	706
screen tenter	279	seuter (colliery)	042	searcher (woollen cloth)	706
screen trapper	049	seuter (cotton)	352	seasoner, gas mantle	688
screen woman	049	seuter, flannel	352	seasoner, incandescent mantle	688
screen attendant, auto	279	seuter (flax or hemp)	352	seasoner, mantle	688
screw attendant (patent feel)	399	seuter (hair)	352	seasoner attendant	630
screw conveyor	589	seuter, lap (cotton)	352	seat attendant	929
screw cutter	200	seuter (mason's)	572	seat buttoner (cars)	472
screw, axle box	200	seuter (silk)	362	seater, boiler	565
screw, axle bush	200	seuter (textile bleaching, &c.)	399	seater, chair	472
screw, bolt	279	seuter feeder (cotton, flax, hemp)	382	seater, heel	472
screw, bonnas hook	200	seuter foreman	351	seater, key	290
screw (boots)	414	seuter gaffer	351	seater (refreshment rooms)	916
screw (brewery, distillery)	459	seuter minder (cotton)	352	seater, wood heel	486
screw, button	200	seuter tender (cotton)	352	seater (wood heels)	486
screw, copper bolt and nut	200	seuter tender, opener	352	seat framer (chairs)	473
screw, first	174	seutleman	529	seating weaver, hair	370
screw, frost frog	200	seythe back bender	190	seating weaver, horse hair	370
screw, frost stud	200	seythe back maker	190	seat letter	929
screw (metal)	200	seythe borer	200	seat maker (chairs)	473
screw (rolling mill)	176	seythe cutter-out	190	seat maker (travancor)	474
screw, second	176	seythe finisher	190	seat nailing machine operator	414
screw (small arms)	231	seythe fitter	190	seat sinker (boots)	429
screw, stud	200	seythe forgerman	190	seatsman	415
screw, turret	200	seythe forger	190	seat tapper (boots)	415
screw, tube	200	seythe pacer	190	seat under (theatre, &c.)	429
screw-down, action (piano)	149	seythe plater	190	sea wall labourer	889
screw-down (rolling mill)	176	seythe shaft maker	190	seaweed collector	581
screw machine	200	seythe smith	498	seaweed cutter	589
screw's fitter	211	seythe smith's heater	190	seaweed gatherer	589
screw's runner	279	seythe stone maker	575	secondary battery maker	302
screw-up	222	seythe wrapper-up	279	secondary battery paster	302
screw gear driver	176	sea chest maker	474	secondary call maker	302
screwing machine attendant	200	sea defence worker	581	second bender (log irons)	278
screwing machine man	200	sea grease labourer	581	second bender and fly frame tenter	363
screwing machine worker	200	seal (or seak) breaker	159	second butcher (ship)	737
screwing machinist	200	seal (or seak) maker	159	second engineer (ship)	734
sever machine hand, auto- matic	279	seal engraver	230	second forgerman	190
screw machine operator, auto	279	sealer, box	230	second framer	363
screw maker, balance	324	sealer, end (cables)	319	second framer dresser	363
screw maker, frost	190	sealer, ink bottle	159	second hand (bark-house)	433
screw maker, watch	324	sealer (Jewish meat market)	448	second hand (brass foundry)	180
screw maker (watches, &c.)	324	sealer (lamps)	318	second hand (dressmaker's)	405
screw maker, wooden	499	sealer, petrol can	318	second hand (fishing boat)	080
screw stopper maker (ebonite)	698	sealer-in (lamps)	318	second hand, roller's	178
scribble filer	363	sealer-out (lamps)	318	second hand (rubber calendar ing)	608
scribbler	363	sealer-forger	190	second hand charger	279
scribbler feeder	363	sealing wax maker	159	second hand clothier	770
scribbling engineer	363	sealing wax stamper	159	second hand pickler	250
scribbling feeder	363	seal maker, adhesive	559	second helper	279
scribbling jobber	364	seal maker, bottle	559	second mate	414
scribbling miller	364	seal maker, wafer	159	second mopper (tobacco pipes, not clay)	688
scribbling overlooker	363	seams, able	735	second officer (cable ship)	733
scriber (cargu maker)	749	seaman, able-bodied	735	second overlooker	949
scriber (metal liner)	310	seaman (fishing boat)	741	second passer	178
scrifer	649	seaman, landing stage	735	second pickler	250
scrifer-in	649	seaman, ordinary	735		
scrifer	649	seaman (ship)	735		
scrifer's clerk	649				

Code Number.		Code Number.		Code Number.	
second saloon steward	337	seller, newspaper	778	setter, circle (card clothing)	225
second saloon stewardess	337	seller, programme	809	setter, circle (textile ma-	
second sewer	178	seller (street)	777	chinery)	278
second silkman	432	selvage trawler	279	setter (coal mine)	243
seconds hands maker	324	selvage winder, wire mattress	289	setter, comb	278
secretary, assistant	939	semi-fuse examiner	148	setter, comb	278
secretary (assurance, bank,		semi-fuse spinner	149	setter (cutlery grinder)	237
colliery, dock, harbour, in-		semi-power machine brazier	396	setter (cutlery smith)	190
urance, joint stock)	930	semi-power machine weaver	398	setter, damper fuse	318
secretary, chartered	930	sempress	419	setter, diamond (diamond	
secretary (clerk)	939	senior audit clerk	819	tool making)	688
secretary (cricket, football,		senior bagman	758	setter, diamond (jewellery)	284
or golf club)	939	senior checker	706	setter, diamond saw	138
secretary (hunt)	939	senior porter	706	setter, die (tin box, etc.,	
secretary (mine)	939	senior ticket collector	705	making)	211
secretary, private	939	separator, gunnrot	149	setter, die (wire drawing)	278
secretary-accountant	930	separator (lead extraction)	278	setter, door	047
secretary-manager (racing		separator, magnetic	058	setter, dry	396
stables)	868	separator, metal and oil	159	setter, edge (boots)	428
secret springer	325	separator, milk	449	setter, edge tool	237
secret spring maker	325	separator, oil	279	setter, edge tool (grinder)	237
sectional clock hunter	043	separator, stich (boots)	414	setter, emerald	264
sectional overman	041	separator man	448	setter, erratic	571
section beamer	387	separator minder (creamery)	449	setter, faller	278
section cutter-out (machines		separator minder (grain mill-		setter (fancy combs and	
knife-pressworker)	254	ing)	432	slides)	613
section cutter-out (machines		separator, lowman (exp-		setter (felt hats)	409
knife-sawyer)	278	lative)	143	setter, fil	232
section leader	332	serang, deck	735	setter, flature	565
section puncher (blank stamp-		serang, fireman	736	setter, form (cardboard	
ing)	254	sergeant (railway police)	709	boxes)	551
section puncher (hole punch-		sergeant commissaire (Post		setter, frame (cycle)	229
ing)	278	Office)	751	setter, frame (metallic bed-	
section roller	178	sergeant cutter	638	stead)	270
section smith	180	serpentine worker	838	setter, funnel	213
section smithy	190	servant, agricultural	024	setter, gun	294
section warper	387	servant, college	900	setter, gunnapping)	386
seccum	735	servant, dairy	900	setter, gun	383
sedge brazier	472	servant, day	900	setter, gill pin	278
sedge collector	039	servant, general	900	setter, glazier's diamond	603
sedge cutter	039	servant, house	900	setter, granite	572
sedge gatherer	038	servant, master's (workhouse)	900	setter, handle	399
sedge plaiter	472	servant, outdoor	929	setter (hats)	410
sedge worker	472	servant, pair	741	setter, leading machine	278
seed cleaner, mustard	448	servant man	024	setter, ingot	219
seed cleaner (seed crushing)		servant's cap maker	419	setter, jewel (jewellery)	294
seed dresser (mustard)	448	server (hair wearing)	570	setter, jewel (watch)	324
seed dresser, mustard	448	server, moulder's	183	setter, jig	211
seed grower (barner)	011	server, plasterer's	360	setter, jolbing	234
seed grower (for seedman)	011	server (silk)	399	setter, herb	579
seed kiln man (mustard)	448	server (wool)	363	setter, kiln (brick works, do.)	109
seed maker (artificial flowers)		service engineer (electricity		setter, kiln (cement)	082
seed man (seed crushing)		supply)	690	setter, kiln (lime burning)	334
seed packet maker	553	service inspector (electricity		setter, last (gunnapping)	358
seed picker	013	supply)	692	setter (leather)	192
seed press	159	service layer (drain pipes)	561	setter, lens	138
seed room assistant	860	service layer (electricity, gas,		setter, machine (a footsetter)	
seed screener	159	water)	578	setter, machine (cardboard	
seedman, mustard	448	service room hand	900	boxes)	551
seedman (wholesale, retail		service room maid	900	setter, machines tool	211
draling)	770	service waiter (cartridges, ex-		setter (metallic bedsteads)	571
seed sorter	386	plaisies)	149	setter, mosaic	571
seed trimmer	159	setting boy	119	setter (moulder)	190
seeder, bobbin	386	setting mald	308	setter, mould (steel)	273
seeder, pattern	374	set box minder (silk)	363	setter, mould (type/casting)	
seer	899	set carrier	399	setter, nap	384
seeger man	044	set dragger	399	setter (needles)	237
seeger maker	118	set drawer (silk spinning)	383	setter, needle (textile ma-	
seeger washer	107	set hand	333	chinery)	278
seg maker	575	set maker	394	setter (optical glass)	138
segmental grinder	257	set moulder	294	setter, pattern	386
segment corker	581	set moulder's assistant	294	setter, pearl	284
segment maker	525	set beater	581	setter, pin	278
seine fisherman	000	set cutter	575	setter, pipe	278
selevator, casing	448	set dresser	575	setter, plate (saw)	278
selector (fireclay mine)	074	setter, apprentice	575	setter, plate (wire works)	
selector, goods (shipping com-		setter, automatic machine	211	setter, pot	149
pamy)	740	setter, bar	709	setter, potato	024
selector, gut	448	setter, bargain	073	setter, press	384
selector, iron	298	setter, barrel (small arms)		setter, press tool	211
selector (leather)	243	setter, bayonet	278	setter, printing machine	529
selector, pig	278	setter, beam	367	setter, razor	247
selector, skin	338	setter, blue bed	149	setter (reed making)	563
selector, timber	496	setter, blue lead	149	setter, rears	577
selector, ware	118	setter, bobbin	399	setter, road	149
self-acting dickie boy	043	setter, boiler	965	setter, rotary	211
self-acting incline boy	043	setter, brick (brickmaking)		setter, saw	278
self-acting jolmer	385	setter, brick (brickmaking)		setter (saws)	278
self-acting minder (dombing)		setter (bricks, tiles)	109	setter (sett maker)	575
self-acting minder (spinning)		setter, captain	211	setter, shaped diamond tool	
self-actor spinner	385	setter, card	225	setter, ship frame	222
self feeder	279	setter, card teeth	225	setter, shoy	210
self-raising flour maker	448	setter, car frame	210	setter, sley	210
seller (chip potato)	777	setter (carpet)	398	setter, spindle	210
seller, chocolate	899	setter, cast	729	setter, spinning tube	376
seller (dodging)	777	setter, chain	398	setter, spring	278
seller, fruit (street)	777	setter, chenille	398	setter, stage	467
seller (hawker)	777			setter, steel	406
seller (ice cream)	777				
seller (match)	777				

	Code Number.		Code Number.		Code Number.
seiler, slopper	279	sewer, cloth (textile mill)	419	sewing woman, daily	419
seiler, stone (bricklayer)	565	sewer, cobble	405	sew-round hand	414
seiler, stone (white lead)	149	sewer, cricket ball	663	sew-round machine operator	414
seiler, tack	225	sewer, crown	410	sew-round maker	414
seiler, teasel (leade)	336	sewer, drawn seam	411	sew-round man	414
seiler (textile machinery)	273	sewer, embroidery	407	sextant frame maker	322
seiler, timber (coal mine)	944	sewer, leather	633	sextant maker	322
seiler, timber (metal mine)	654	sewer, felt	419	shackle forger	193
seiler, tool (edge finisher)	273	sewer, fine	419	shackle inspector	041
seiler, tool (machine fitter)	211	sewer, football	343	shackler	043
seiler, track	049	sewer (fur)	332	shackle smith	190
seiler, train	704	sewer, fur (gloves)	411	shackle striker	190
seiler, track	729	sewer, gas mantle	419	shade dryer	396
seiler, tube	359	sewer, general hand	419	shade getter	396
seiler (typofounding)	279	sewer, glove	411	shade maker (glass)	124
seiler, van (for driver)	729	sewer (gloves)	411	shade maker, lamp	686
seiler, van (railway)	796	sewer, hand (cloth base)	410	shade maker, lamp (paper)	554
seiler, vat	149	sewer, hand (clothing, &c.)	419	shade maker, lamp (silk)	418
seiler (watch, clock jewel)	324	sewer, hand (corsets)	406	shader (artificial flowers, &c.)	152
seiler, yarn (gonapping)	396	sewer, hand (gloves)	411	shader, flower	636
seiler-in (brickworks)	109	sewer, hand (leather goods)	343	shader (for textile printing)	381
seiler-in, card	225	sewer (hand-sewn boots)	410	shader, leaf	636
seiler-in, comb	618	sewer, hand (straw hats)	410	shader (paint grinding)	152
seiler-in (cutler)	278	sewer, harness (wool weaving)	396	shader (textile dyeing)	381
seiler-in, hand-on-on	109	sewer, hat leather	419	shaft bender	496
seiler-in, pen knife	228	sewer, incandescent mantle	410	shafter, harness	496
seiler-in, pocket knife	228	sewer, lace	343	shafter, spade and shovel	278
seiler-in, razor	228	sewer, layman	411	shaft examiner	496
seiler-in, spring knife	228	sewer (leather belt)	343	shaft finisher, spade and shovel	496
seiler maker	118	sewer (leather goods)	343	shaft foot man	054
seiler-on (blast furnace)	279	sewer, lining	419	shaft fitter, pick	496
seiler-on (coal mine)	043	sewer, machine (gloves)	411	shaft grinder	237
seiler-on (fly frame)	399	sewer, machine (straw hats)	410	shaft grinding machine	237
seiler-on (ring spinning)	399	sewer, mantle	419	shaft attendant	237
seiler-on, roring	399	sewer, nursery	419	shaft grinding man	237
seiler-on (wet spinning frame)	399	sewer, overhead	417	shaft grinding worker	237
seiler-out (engineering)	210	sewer, overcoat	411	shaft hand	047
seiler-out, head	118	sewer, piece	419	shafting engineer	244
seiler-out (leather dressing)	334	sewer, pigst	411	shafting tender	399
seiler-out (polish, &c.)	949	sewer, plush crown	410	shaft lad	043
seiler-out, saw	496	sewer (pressclothes)	419	shaft maker, scythe	496
seiler-out (wood)	471	sewer, prickman	411	shaft maker, steel	278
seiler-out (wood wind instru- ment)	406	sewer, print	419	shaft maker (textile machinery)	456
seiler-up (brick works)	109	sewer, P.X.M. (gloves)	411	shaftman, assistant	047
seiler-up (diamond polishing)	636	sewer, roundsman (gloves)	411	shaftman, horse wale	078
seiler-up (electric lamps, &c.)	318	sewer (rubber boots and shoes)	419	shaftman (carriage)	580
seiler-up (machinery)	210	sewer, sack	417	shaftman (china clay mine)	374
seiler-up (spectacles)	278	sewer (sack bag)	417	shaftman (coal mine)	047
seiler-up (tool setter)	211	sewer, saddleman (gloves)	411	shaftman (cool mine)	054
sett finisher	575	sewer, role	414	shaftman, rock salt	076
setting machine operator	334	sewer, spangle	497	shaftman (slate mine or quarry)	073
setting-up boy (typofounding)	279	sewer (stationary book)	532	shaft mill hand	372
setting weaver	370	sewer, tape	396	shaft minder	043
setting weaver, chenille	370	sewer, tennis ball	686	shaft minder	043
sets lad	043	sewer, tent	418	shaft rapper	043
setter, fat	499	sewer (textile finishing)	399	shaft repairer	047
setter (hats)	499	sewer, top	419	shaft slider	200
setter man, best	143	sewer (vegetable oil)	532	shaft slider	200
settling room clerk	939	sewer (vellum)	532	shaftman, assistant	047
sett maker, ball (fute)	399	sewer, welt	414	shaftman, brine	079
sett maker (stone, &c.)	575	sewer (white leather manufac- ture)	333	shaftman (brine well)	079
sett maker's apprentice	575	sewer, wire	343	shaftman (cool mine)	047
sett pavior	579	sewerage pipe maker	145	shaft stretcher	270
sett quarrier	072	sewer builder	366	shaft turner (gold club)	456
sett rider (colliery)	043	sewer-down (gro. cloth)	399	shaft turner (spade and shovel)	456
sett rider (metal mine)	654	sewer-down (textile finishing)	399	shaft turner, trawl	456
sett rider (stone mine or quarry)	072	sewer flusler	399	shaker, barrel	279
settman (stone dressing)	575	sewer-in	970	shaker, esparto grass	519
settman (stone mine or quarry)	072	sewer labourer	970	shaker, forged	279
settman finisher	575	sewerman	970	shaker (iron and steel hollow ware, boot and shoe plates)	279
set weigher (cotton)	399	sewerman (lead drainage)	026	shaker, rag (paper mill)	519
set weigher (flax and hemp)	399	sewerman (railway)	577	shaker, rag (textile mill)	362
set wheeler	399	sewer miner	581	shaker, sack	429
set wheeler-out	399	sewer-on, band (wool spin- ning)	396	shaker (sack, bag)	429
set worker	637	sewer-on, tape	396	shaker, silk	399
sewage disposal labourer	970	sewer-on, trimming	419	shaker, splint (mattress)	149
sewage farm manager	960	sewer-up	371	shaker, turned	279
sewage nightman	970	sewing cord spinner	371	shaker, waste (flax, hemp)	362
sewage pump attendant	950	sewing machine assembler	279	shaker (wool)	362
sewer, bag	417	sewing machine mechanic	245	shaker (yarn)	399
sewer, hand	399	sewing machine operator	244	shaker and header	399
sewer, hand and spangle	407	sewing machine repairer	278	shaker and header, yarn	399
sewer, flake	414	sewing machine tester	278	shaker attendant, dust (flax, hemp)	362
sewer (bookbinder)	532	sewing machinist (boots, shoes)	419	shaker girl	429
sewer, book (printer's)	549	sewing machinist (clothing, &c. trades)	410	shaker-in (steel pens)	949
sewer, boots	414	sewing machinist (hats)	410	shaker man	443
sewer, boxing glove	346	sewing machinist (leather goods)	343	shaker-out	918
sewer, button	419	sewing machinist (umbrella, parasol)	419	shaker-up (wool)	362
sewer (calendering and finish- ing)	419	sewing maid	419	shaker worker	047
sewer (carve goods)	418	sewing maid, nurse	419	shake-up hand	639
sewer, carpet	504	sewing woman (theatre)	900	shaking burreller	279
sewer (clothing, &c., trades)	419			shaking barrel rumbler	279
sewer (cloth mending)	379				

Code Number.		Code Number.		Code Number.	
shade burner	142	shaving brush maker	633	sheep shearer	629
shademans	654	shawl fringer	419	sheep skin mat maker	338
shade mining contractor	641	shear cutter (clothing, etc.,		sheep's trotter dresser	448
shade oil distiller	142	trades)	402	shearer	568
shade picker	654	shear cutter (printer's)	543	shearing attendant	279
shade shifter	654	shear driver (engineer)	279	sheep asphalt roofer	279
shade sorter (blast furnace)	279	shear driver, slash (loom		sheet handler	279
shade sorter (metalliferous		cutter)	278	sheet carrier	519
mine)	654	shearer, bar (iron and steel		sheet catcher	519
shade tipper	649	rolling, template)	279	sheet cleaner (celluloid)	619
shampooer (hairdressing)	920	shearer, bloom (bar or sheet		sheet cleaner (galvanized	
shampooer (turkish bath)	919	metal)	279	sheet)	250
shank attacher	414	shearer, bloom (steel)	278	sheet collector	706
shank carrier	183	shearer (boiler and tank		sheet cutter, asbestos	279
shanker, button	889	making)	279	sheet cutter, steel (pans)	279
shanker (coal sales)	496	shearer (bolts, nuts, etc.)	279	sheeter (card and pastboard)	519
shanker (clog mining)	047	shearer, circle copper	279	sheeter (constructional en-	
shanker (fish hooks)	233	shearer, cloth	384	gineering)	228
shanker (fishing)	900	shearer, foldplate	279	sheeter (dock, harbour)	749
shanker (harness furniture)	278	shearer, fudge	278	sheeter (interleaving, machine	
shanker (piano hammers)	649	shearer, fudge	278	cutting)	519
shanker (sissors and hand		shearer, iron	279	sheeter (paper sorting)	518
shears)	190	shearer (leather)	334	sheeter, pin	279
shanker, wrought nail	278	shearer, nail	393	sheeter (railway)	706
shanker (wrought nails)	278	shearer (metal trades)	279	sheeter (rubber)	808
shank maker, halter	373	shearer, scrap	279	sheeter, single	519
shank maker (piano hammers)	428	shearer, shop	920	sheeter, steel	254
shank scissor	499	shearer, short link (chains)	279	sheeter, zinc	254
shank skiver	414	shearer, silk plush	384	sheeter and erector	226
shankman	047	shearer (silver and plate)	287	sheeter erector	270
shape cutter	402	shearer, sleeper mill	279	sheeter's foreman	700
shaped diamond tool setter	883	shearer (textile finishing)	384	sheeter's mate	279
shape maker, bonnet	468	shearer-out (clay, marl)	674	sheet folder	943
shape maker, hat	468	shearer's assistant (metal		sheet glass cutter	138
shape maker, hat	468	trades)	279	sheet hand	706
shape maker, hatery	468	shearer's assistant (silver and		sheet iron smith	254
shape maker, wire	468	plate)	285	sheet iron stretcher	284
shaper, axle box	200	shearer's helper	279	sheet iron worker	284
shaper, ball head	200	shearer's marker	279	sheet label pinning	949
shaper, bit	469	shear head	279	sheet lead millman	178
shaper (cardboard boxes)	359	shearing machine attendant	279	sheet lead roller	178
shaper (celluloid)	819	shearing machine worker	279	sheet liner (cardboard boxes)	559
shaper (chair)	498	shearing machinist	279	sheet maker, ground	609
shaper, chair	498	shearman, bar	279	sheet maker, hair felt	378
shaper, dog iron	278	shearman (clothing)	402	sheet maker, leather	348
shaper (dog iron)	278	shearman (metal trades)	279	sheet maker, oil	608
shaper (cloth hats)	409	shear oiler	279	sheet maker (rubber calendrar-	
shaper (clothing)	402	sheer operator, slash	278	ing)	608
shaper (corsets)	402	shear cutter	558	sheet maker (rubber spread-	
shaper, dip	200	shearman (hats, sets, and		ing)	802
shaper (felt hats)	469	rivets)	279	sheet-maker, sail	418
shaper, filament	318	shearman (metals)	279	sheet man	706
shaper (gloves)	429	shears sharpener	237	sheet marker	709
shaper (hats, do., not felt)	410	shears whittler	237	sheet mender	419
shaper, head (sacks)	498	shears worker, hydraulic	279	sheet metal worker	279
shaper (hosiery)	384	shear, cable (lead)	318	sheet mill hogman	279
shaper (laundry)	819	sheather, cable (taper etc.)	318	sheet mill cutter	178
shaper (metal machining)	200	sheather, lead (cables)	018	sheet mill furnaceman	171
shaper, nut	200	sheave grasper	447	sheet mill heater	171
shaper (pens)	254	sheaveman (colliery brake-		sheet mill inspector	278
shaper, propeller	498	man)	043	sheet mill roller	178
shaper, ship's propeller	200	sheaveman (colliery labourer)	047	sheet mill sweeper	279
shaper, stiffener	414	sheave sifter	047	sheet mill weigher	279
shaper, tyre	808	shed boy	448	sheet mill worker	279
shaper (tyres)	638	shed chugman	709	sheet opener (wood sorting)	399
shaper, wood heel	438	shed chugman, cleaner	701	sheet paster (card and paste	
shaper (wood machinist)	436	shed checker	706	board)	519
shaper machinist	200	shed engine man	701	sheet paster (vinyl, do.,	
shaping machine man	200	shed engineman's mate	701	cards)	558
shaping machinist	436	shed foreman	709	sheet repairer, van or wagon	418
share broker	702	shed foreman (carriage)	709	sheet roller	178
share dealer	732	shed foreman (railway)	709	sheet roller, brass	178
sharpener, drill (mine or		shed foreman, running	700	sheet roller, copper	178
quarry)	190	shed foreman (tannery)	331	sheet roller, lead	178
sharpener, gear	190	shed foreman (tramways)	716	sheet superintendent	700
sharpener, pick	190	shed labourer, loco	709	sheet turner (galvanized sheet)	279
sharpener, pit prop	461	shed labourer (tannery)	709	sheet woman	417
sharpener, saw	273	shed labourer (textile)	709	sheet worker	279
sharpener (saw-making)	273	shedman (docks)	745	sheet worker, copper	227
sharpener, shears	237	shedman (leather)	338	sheet worker, steel	158
sharpener, tool (grinder)	237	shed man, nickel	171	shell copper	254
sharpener, tool (smith)	190	shedman, pit	338	shell cutter (metal)	209
sharpener, wire (carpets)	398	shed master	700	shell cutter (tortoiseshell,	
sharpener and setter, saw	278	shed master	700	pearl)	618
sharpener, pick	190	shed superintendent	700	shell drill (boiler making)	231
sharpener (raw making)	278	shed superintendent, goods	700	shell filler	148
sharp glaze (pianos)	498	shed superintendent, running	700	shell handle gutter	813
sharp maker (pianos)	498	shed sweeper (factory)	970	shell machinist (ammunition)	200
shaver, bark	499	shed turner	701	shell maker, brass	254
shaver, base	338	shed worker	338	shell maker (paper mill)	519
shaver (sacks)	477	shed worker, drying	338	shell maker, wood	184
shaver, case	410	sheep cage maker	474	shell moulder	180
shaver (hats)	410	sheep clipper	820	shell packer	148
shaver, head	200	sheep dip filler-out	149	shell painter	592
shaver, hood	410	sheep dip labourer	549	shell plater	222
shaver, hoop	477	sheep dip maker	149	shell plater's tackle man	174
shaver, knife	423	sheep dip paste boy	149	shell riveter	252
shaver (leather)	338	sheep dipper	620	shell stamper (brass)	254
shaver, machine	338	sheep farmer	011		
shaver, pearl	618				

Sh

	Code Number.		Code Number.		Code Number.
shell stamper (steel) ...	190	ship plate straightener ...	222	shoemaker (dressing) ...	770
shell tip cutter ...	613	ship quay labourer ...	745	shoe maker, horse ...	190
shell turner ...	183	ship repairer ...	662	shoe maker, turn ...	414
shell worker ...	280	ship rigger (for working cargo) ...	745	shoe pressman ...	413
sheller man ...	432	ship rigger (ship building) ...	968	shoer, horse ...	190
sheller, nut ...	449	ship scaler ...	599	shoe riveter ...	429
sheller, outboard ...	432	ship scraper ...	599	shoer's mate, horse ...	279
sheller, pea ...	449	ship stower ...	599	shoe stamper, horse ...	190
sheller, shrimp ...	448	ship sweeper (shipyard) ...	213	shoe tip bender ...	278
shepherd ...	620	ship telegraph fitter ...	210	shoe tip cutter ...	254
shepherd's boy ...	620	ship timber maker ...	190	shoe tip puncher ...	278
shepherd's page ...	620	ship toolmaker ...	190	shoe trimmer ...	479
sharadiser ...	279	ship worker (dock) ...	745	shooter (blast furnace) ...	479
shift boss (metal mines) ...	651	ship worker, foreman ...	739	shooter, bottom ...	644
shift boss (other mines) ...	671	ship's boiler tube sweeper ...	749	shooter, rifle ...	989
shift engineer ...	691	ship's carpenter ...	735	shooter, what ...	449
shift engineer, boiler house ...	691	ship's cleaner ...	749	shoot lad (food or starch factory) ...	449
shifter, bobbin ...	399	ship's cleaner (female) ...	822	shootman ...	744
shifter, candle ...	649	ship's clerk (dock, wharf, etc.) ...	939	shoot runner (silk wick) ...	399
shifter (coal mine) ...	649	ship's clerk (on board ship) ...	737	shot assistant, off-license ...	914
shifter (flux, soap, twine) ...	399	ship's compass adjuster ...	322	shot assistant, photographer's ...	577
shifter (hacker's assistant) ...	399	ship's compass maker ...	322	shot assistant, receiving ...	925
shifter, iron ...	279	ship's counter-off ...	749	shot assistant, smith's ...	279
shifter (iron and steel rolling) ...	279	ship's discharger ...	749	shot assistant, undertaker's ...	925
shifter (jute preparing) ...	363	ship's dock tallyman ...	399	shot blind maker ...	688
shifter (jute spinning) ...	365	ship's fender maker ...	399	shot boy (messenger) ...	758
shifter (lace warehouse) ...	335	ship's fumigator ...	989	shot boy (printer's) ...	549
shifter, master ...	641	ship's funnel maker ...	222	shot clerk (workshop) ...	493
shifter (metal mine) ...	654	ship's husband (drifter or trawler) ...	739	shot fitter ...	493
shifter, sawing ...	674	ship's husband (not fishing boat) ...	739	shotfitter cabinet maker ...	474
shifter, plough (tramways) ...	729	ship's joiner ...	735	shot fitter's joiner ...	474
shifter, pole (tramways) ...	729	ship's leg maker ...	735	shot foreman (cooperage) ...	471
shifter, roll ...	212	ship's leg maker ...	735	shot foreman, pattern ...	471
shifter, rope ...	363	ship's master ...	733	shot girl, etching ...	126
shifter, screw ...	367	ship's master ...	733	shot girl, tailor's ...	753
shifter, shade ...	654	ship's master ...	733	shot inspector ...	273
shifter, neck ...	654	ship's model maker ...	688	shot keeper, bucket ...	792
shifter, stone (coal mine) ...	644	ship's packer and liner ...	278	shot keeper, chip potato ...	911
shifter, stone (litho) ...	549	ship's plumber ...	252	shot keeper, cook ...	911
shifter (textile printing) ...	396	ship's porter ...	745	shot keeper, dyer's ...	911
shifter, timber ...	654	ship's propeller shaper ...	200	shot keeper, oil ...	911
shifter, topping ...	674	ship's rigger ...	668	shot keeper, fried fish ...	911
shifter, traffic (coal mine) ...	704	ship's stove canvaser ...	749	shot keeper, pea ...	911
shifter, wagon ...	794	ship's sweep ...	749	shot keeper, paste-pudding ...	911
shifter (warehouse) ...	842	ship's tank cleaner ...	749	shot keeper, retail ...	770
shifter boy ...	778	ship's watchman ...	963	shot keeper, trips ...	911
shifter-placer ...	365	shipwright ...	662	shotkeeper's assistant ...	775
shifter foreman stoker ...	851	shipwright (Government dock-yard) ...	222	shot man, pot ...	148
shifting driver ...	365	shipwright (wood) ...	462	shotman (salesman) ...	775
shifting mistress ...	365	shipwright's labourer ...	499	shotman, tube (colliery) ...	706
shifting mistress, assistant ...	365	shipwright's helper ...	223	shot parcel porter ...	618
shifting-piecer ...	365	shipped labourer ...	668	shot porter ...	759
shifman (coal mine) ...	644	shirt and collar dresser ...	918	shot sweeper (iron works) ...	970
shifman (metal mine) ...	654	shirt and collar machinist ...	918	shot tender ...	278
shifman (coal mine) ...	644	shirt baker ...	918	shot tenderer ...	278
shifman (metal mine) ...	654	shirt boxer ...	949	shot twine maker ...	386
shiner-up (litho) ...	549	shirt collar buttoner ...	429	shot walker ...	775
shinger ...	174	shirt collar hemmer ...	419	shotwoman ...	775
shinger (forging) ...	190	shirt collar maker ...	429	shotwoman, horse ...	414
ship agent ...	730	shirt cutter ...	403	shot gang labourer ...	669
ship blacksmith ...	190	shirt dresser ...	918	shot gang man ...	669
ship blacksmith's striker ...	190	shirt fitter ...	402	shot officer, night ...	731
ship boy ...	672	shirt front hand ...	419	shot porter ...	729
ship breaker ...	669	shirt front maker ...	419	shot purser ...	739
ship broker ...	730	shirt ironer ...	918	shotter (shipbuilding) ...	689
ship carpenter (shipbuilding) ...	474	shirt machinist ...	918	shotter (shipped) ...	682
ship carpenter (shipwright) ...	482	shirt maker ...	419	shot steward ...	749
ship cementer ...	579	shirt tie-up ...	949	short framer dresser ...	363
ship chandler ...	770	shirt troyer ...	499	shortland clerk ...	939
ship charterer ...	730	shirt maker ...	499	shortland typist ...	939
ship dismantler ...	669	shirt maker ...	419	shortland typist (typewriting bureau) ...	939
ship draughtsman ...	932	shirt maker ...	419	shortland writer ...	939
ship fitter ...	310	shirt maker ...	419	short link shearer (chains) ...	279
ship fitter's labourer ...	223	shirt maker ...	419	short side minder (silk spinning) ...	365
ship foreman ...	740	shirt maker ...	419	shot blaster ...	259
ship frame bender ...	222	shirt maker ...	419	shot bore (coal mine) ...	647
ship frame setter ...	222	shirt maker ...	419	shot borer (metal mine) ...	654
ship frame turner ...	222	shirt maker ...	419	shot cater ...	168
ship joiner ...	474	shirt maker ...	419	shot copper man ...	278
ship joiner's labourer ...	499	shirt maker ...	419	shot firer (coal mine) ...	647
ship keeper ...	963	shirt maker ...	419	shot firer (metal mine) ...	664
ship labourer ...	745	shirt maker ...	419	shot firer (stone mine or quarry) ...	672
ship man ...	672	shirt maker ...	419	shot firer's boy ...	647
ship master ...	733	shirt maker ...	419	shot fitter ...	190
ship packing maker ...	190	shirt maker ...	419	shot gun stocker ...	672
ship painter ...	592	shirt maker ...	419	shot holder ...	647
ship painter's assistant ...	599	shirt maker ...	419	shot lighter ...	672
ship painter's labourer ...	599	shirt maker ...	419	shotlighter's assistant ...	647
shipper (commercial) ...	770	shirt maker ...	419	shot maker ...	198
shipper (patent fuel) ...	699	shirt maker ...	419	shotman ...	672
shipper (railway) ...	706	shirt maker ...	419	shotman (coal mine) ...	647
shipper (stone mine or quarry) ...	672	shirt maker ...	419	shotman (coal mine) ...	647
shipper (litho) ...	279	shirt maker ...	419	shotman (coal mine) ...	647
shipping agent ...	730	shirt maker ...	419	shotman (coal mine) ...	647
shipping butcher ...	770	shirt maker ...	419	shotman (coal mine) ...	647
shipping clerk (in commercial office) ...	939	shirt maker ...	419	shotman (coal mine) ...	647
shipping tackle maker ...	665	shirt maker ...	419	shotman (coal mine) ...	647
ship plate maker ...	178	shirt maker ...	419	shotman (coal mine) ...	647

	Code Number.		Code Number.		Code Number.
shotman (stone mine or quarry) ...	472	sickle bender ...	130	signal filter (rectifier) ...	210
shooter (cartridges) ...	486	sickle haft maker ...	486	signal filter (rhyman) ...	261
shoulder (penholders) ...	149	sickle handle maker ...	486	signal filter, railway ...	210
shoulder, tube ...	278	sickle maker ...	190	signal gaitman ...	704
shovel and spade finisher ...	278	sickle tapper ...	278	signal inspector ...	700
shoveller (starch) ...	449	sickle wrapper-up ...	279	signal lampman ...	703
shoveller, starch ...	449	sick visitor ...	703	signal learner ...	706
shoveller (sugar) ...	449	sideboard maker ...	753	signaller ...	043
shove paster ...	196	side car builder ...	478	signal lighter ...	706
shover, bogie ...	854	side cutter (clog soles) ...	478	signal lineman ...	261
showman (coal mine) ...	149	side cutter (template) ...	279	signalling superintendent ...	700
shover-in (wood-crumbling) ...	959	side lining machines ...	414	signalman, aerial rope ...	531
shover-up ...	943	side man (brewery) ...	458	signalman, assistant ...	703
show card designer ...	548	side man, copper ...	458	signalman, charge ...	703
show card maker ...	548	side minder, long (silk) ...	385	signalman, civilian (Adm) ...	745
show card moulder ...	548	side minder, low ...	384	signalman, ralty ...	703
show card writer ...	548	side minder, short (silk spin- ning) ...	385	signalman (coal mine) ...	643
show case maker ...	473	side minder (textile spinning) ...	385	signalman, crane ...	989
showman (circus, etc.) ...	833	side minder (textile spinning) ...	385	signalman, district relief ...	703
showman, Panch and Jnd ...	899	side minder (textile spinning) ...	385	signalman, electric ...	047
showman's assistant ...	899	side minder (textile spinning) ...	385	signalman, ground ...	703
showroom assistant ...	775	side minder (textile spinning) ...	385	signalman, Lloyd's ...	749
showroom attendant ...	775	side minder (textile spinning) ...	385	signalman (metal-mine) ...	054
showroom model ...	775	side minder (textile spinning) ...	385	signalman, porter ...	703
showroom page ...	775	side minder (textile spinning) ...	385	signalman (railway) ...	703
show-wood frame maker (chair) ...	473	side minder (textile spinning) ...	385	signalman, relief ...	703
show-wood hand ...	473	side minder (textile spinning) ...	385	signalman, relief assistant ...	703
shredder ...	449	side minder (textile spinning) ...	385	signalman, sick relief ...	703
shrimp boiler ...	449	side minder (textile spinning) ...	385	signalman, shunter (railway) ...	704
shrimp catcher ...	900	side minder (textile spinning) ...	385	signalman, spars ...	703
shrimper ...	900	side minder (textile spinning) ...	385	signalman (stone-mine or quarry) ...	072
shrimp sheller ...	448	side minder (textile spinning) ...	385	signalman (tramways) ...	729
shrinker, cloth ...	354	side minder (textile spinning) ...	385	signalman, travelling ...	703
shrinker (rubber) ...	354	side minder (textile spinning) ...	385	signalman, under ...	703
shrinker (textile finishing) ...	354	side minder (textile spinning) ...	385	signalman (yacht club) ...	839
shrinker, tyre ...	190	side minder (textile spinning) ...	385	signalman, yard (railway) ...	704
shrinker, wool ...	419	side minder (textile spinning) ...	385	signal porter ...	703
shrinkmaker ...	384	side minder (textile spinning) ...	385	signal porter, relief ...	703
shrowman ...	138	side minder (textile spinning) ...	385	signal south ...	190
shrowman ...	138	side minder (textile spinning) ...	385	signal superintendent ...	703
shunter ...	138	side minder (textile spinning) ...	385	signal telegraphist (railway) ...	703
shunter, carriage and wagon	704	side minder (textile spinning) ...	385	sign fixer ...	969
shunter, cart ...	704	side minder (textile spinning) ...	385	sign fixer, electric ...	318
shunter, coaching ...	704	side minder (textile spinning) ...	385	sign maker, electric ...	318
shunter, dock ...	704	side minder (textile spinning) ...	385	sign maker (wood) ...	474
shunter, engine ...	704	side minder (textile spinning) ...	385	sign painter ...	594
shunter, foreman ...	704	side minder (textile spinning) ...	385	sign writer ...	594
shunter, foreman (coal mine) ...	704	side minder (textile spinning) ...	385	silk breaker ...	099
shunter, foreman (passenger) ...	704	side minder (textile spinning) ...	385	silk cement gripper ...	099
shunter, freight ...	704	side minder (textile spinning) ...	385	silk cement maker ...	099
shunter, goods ...	704	side minder (textile spinning) ...	385	silk cracker ...	099
shunter, head ...	704	side minder (textile spinning) ...	385	silk dump maker ...	102
shunter, horse ...	704	side minder (textile spinning) ...	385	silk roller ...	099
shunter, passenger ...	704	side minder (textile spinning) ...	385	silk roving maker ...	152
shunter, pilot ...	704	side minder (textile spinning) ...	385	silk waste maker ...	099
shunter, porter ...	704	side minder (textile spinning) ...	385	silk works labourer ...	419
shunter (railway) ...	704	side minder (textile spinning) ...	385	silk bag machinist ...	419
shunter, relief ...	704	side minder (textile spinning) ...	385	silk button coverer ...	428
shunter, shed ...	704	side minder (textile spinning) ...	385	silk button maker ...	428
shunter (stone mine or quarry) ...	072	side minder (textile spinning) ...	385	silk cloaker ...	407
shunter, trip ...	704	side minder (textile spinning) ...	385	silk cord spinner ...	396
shunter, under ...	704	side minder (textile spinning) ...	385	silk coverer (cables) ...	371
shunter, van ...	729	side minder (textile spinning) ...	385	silk discharge ...	396
shunter, wagon ...	704	side minder (textile spinning) ...	385	silk dope mixer ...	149
shunter (works, etc., railways) ...	704	side minder (textile spinning) ...	385	silk drummer ...	399
shunter and lampman ...	704	side minder (textile spinning) ...	385	silk drummer ...	363
shunter in indicator cabin ...	704	side minder (textile spinning) ...	385	silk drummer ...	371
shunter signalman (railway) ...	704	side minder (textile spinning) ...	385	silk drummer ...	396
shunt horse brakeman ...	704	side minder (textile spinning) ...	385	silk drummer (boots) ...	414
shunt, horse driver ...	704	side minder (textile spinning) ...	385	silk drummer (cloths) ...	414
shunting driver ...	701	side minder (textile spinning) ...	385	silk finisher ...	419
shunting engine driver ...	701	side minder (textile spinning) ...	385	silk hosiery hand ...	374
shunting inspector ...	701	side minder (textile spinning) ...	385	silk lacer ...	371
shunt lad ...	318	side minder (textile spinning) ...	385	silk machinist ...	318
shunt maker ...	318	side minder (textile spinning) ...	385	silkman ...	770
shunt minder (coal mines) ...	704	side minder (textile spinning) ...	385	silk oiler ...	396
shunter, dog (gas works) ...	699	side minder (textile spinning) ...	385	silk opener ...	399
shunter, lid (gas works) ...	699	side minder (textile spinning) ...	385	silk packer ...	399
shunter maker (wood) ...	474	side minder (textile spinning) ...	385	silk picker, gum ...	399
shuttle block cutter ...	486	side minder (textile spinning) ...	385	silk picker (silk throwing) ...	399
shuttle block presser ...	486	side minder (textile spinning) ...	385	silk piecer, gum ...	399
shuttle boy ...	483	side minder (textile spinning) ...	385	silk piecer, soft (throwing) ...	399
shuttlecock maker ...	483	side minder (textile spinning) ...	385	silk piecer, soft (winding) ...	371
shuttle ays maker ...	105	side minder (textile spinning) ...	385	silk pluck batter-up ...	394
shuttle filter (asbestos) ...	367	side minder (textile spinning) ...	385	silk pluck grinder ...	394
shuttle filter (yarn) ...	399	side minder (textile spinning) ...	385	silk pluck shaver ...	384
shuttle girl (dancer) ...	376	side minder (textile spinning) ...	385	silk printer ...	393
shuttle girl (Swiss embroi- dery) ...	429	side minder (textile spinning) ...	385	silk printer (block printing) ...	362
shuttle maker ...	486	side minder (textile spinning) ...	385	silkman ...	399
shuttle peg maker ...	499	side minder (textile spinning) ...	385	silkman, first ...	432
shuttle spring forger ...	190	side minder (textile spinning) ...	385	silkman, second ...	432
shuttle spring maker ...	278	side minder (textile spinning) ...	385	silk spinner ...	372
shuttle threader ...	399	side minder (textile spinning) ...	385	silk spinner (artificial silk) ...	143
shuttle tip forger ...	190	side minder (textile spinning) ...	385		
sick horse keeper ...	725	side minder (textile spinning) ...	385		
sickle hack maker ...	190	side minder (textile spinning) ...	385		

	Code Number.		Code Number.		Code Number.
silk spooler	371	sinker, master (mine)	560	skewerer, cop (rope and twine)	399
silk staffer	388	sinker, mine	580	skewerer (dyeing)	399
silk stitchee	410	sinker (mine, etc.)	580	skewer maker (textile machinery)	499
silk stitchee	388	sinker, pit	580	skewer maker, wooden	499
silk tester	149	sinker, pump	580	skid and live roller	279
silk throwster	372	sinker (rubber stamp)	618	skid boy	279
silk tie knitter	429	sinker, seat (boots)	429	skier	379
silk velvet cutter	398	sinker, shaft	580	skilled workman (G.P.O.)	311
silk warp hand	376	sinker, well	581	skillet cutter	296
silk washer	338	sinker press hand	234	skillet chopper	486
silk winder (electric cables)	319	sinker straightener	581	skillet machine attendant	486
silk winder (lace)	371	sinker's bankman	105	skillet maker	554
silk winder, soft	371	sink leader	171	skillet peeler	486
silk worker, artificial	398	sinterer (lead smelting)	279	skimmer (blast furnace)	279
silk worker, artificial (chemical process)	143	sintering band	112	skimmer (brass foundry)	185
silk worker on postcards	407	sinter operator (blast furnace)	120	skimmer (glass works)	122
silk yarn washer	398	sitter-up (glass)	120	skimmer (iron foundry)	183
silo man	159	sitter-up (pottery)	119	skimmer (needles)	279
silver beater	298	sitting room maid	900	skimmer, pos	122
silver blocker	537	sizing boiler	159	skinner (clothes)	338
silver case maker	325	sizing dipper	518	skinner (clothes)	411
silver corder	370	sizing dryer	158	skinner, rabbit (fur felt)	338
silver cutter	370	sizing maker	158	skinner, dress (leather)	334
silver deponator	287	sizing maker (carpet and rug)	158	skin dresser, sausage	448
silver dial maker	282	sizing maker, gold	334	skin dresser (slaughterhouse)	338
silver embroiderer	437	sizing maker (textile printing)	399	skin dyer	428
silverer (electro-plate)	262	sizing man	429	skin grader (gloves)	428
silverer (glass)	138	sizing mixer (cotton, etc., sizing room)	369	skin maker, gold beater's	158
silverer's assistant	138	sizing mixer (paper mill)	519	skin maker, sausage	448
silver filer	287	sizing mixer, warp	369	skin man	158
silver finisher	285	sizing parter	419	skin measurer	428
silver handle maker	287	sizer, bobbin (machinist)	499	skinner, fish (walking and umbrella sticks)	499
silverer (lead extraction)	287	sizer, bobbin (sorter)	499	skinner (leather)	338
silver lace or band weaver	370	sizer (boots and shoes)	429	skin puller	338
silver make-up	286	sizer (brass bobbins)	279	skin rag cutter	332
silver molder	258	sizer, cane	399	skin rag dyer	333
silver mouster	368	sizer, cable	399	skin rag finisher	332
silver mount maker	287	sizer, cop	399	skin scraper (bacon factory)	449
silver mud man	143	sizer, engine	369	skin scraper (leather)	338
silver plate maker	296	sizer (for painter)	399	skin sector	338
silver plater	282	sizer, gear	399	skin sector	334
silver polisher	285	sizer (gunpowder)	369	skin sorter	119
silver printer	287	sizer, hawk	428	skin yard labourer	339
silver putter-together	287	sizer (hats)	548	skip carrier	399
silver runner	287	sizer, bat tip	399	skip dragger	399
silver refiner	298	sizer, barrel	399	skip engineer	960
silver roller	298	sizer, bottle	399	skip filler (metalliferous mine)	954
silver smelter	298	sizer (leather)	334	skip filler (stone mine or quarry)	972
silversmith	287	sizer (paper mill)	518	skip maker	732
silversmith (dialing)	770	sizer (silk throwing)	369	skipper (bankman)	561
silversmith, German	287	sizer, skin	581	skipper (fishing boat)	980
silversmith (watch cases)	325	sizer (stone sorter)	369	skipper (foreman ganger, etc.)	561
silversmith's jeweller	770	sizer, tape	369	skipper (river barge, lighter, etc.)	738
silver stamper	337	sizer, tub	369	skipper (sailing barge or ship)	733
silver stripper	287	sizer (twine and cord)	399	skipper (trawler)	733
silver thread maker	398	sizer (wadding manufacture)	369	skip runman	954
silver thread spinner	398	sizer (warp)	369	skip runner	399
silver twist maker	398	sizer, warp	369	skirt band (dressmaker's)	466
silver twist spinner	398	sizer, yarn	349	skirt band (tailor's)	466
silver weaver	370	sizer and roller (whips)	349	skirt hand (tailor's)	466
silver wire drawer	298	sizer on carding machine	354	skirt machinist	404
silver worker, Nevada	287	sizing stamper	429	skirt maker (dressmaker's)	405
silver worker, nickel	287	sizing boiler	152	skirt maker (tailor's)	404
singing machine beater	398	sizing house man (gunpowder)	149	skiv	399
singing man	398	sizing machine man	369	skiver (boots)	414
singing man, gas	398	sizing machine minder	369	skiver (clothes)	414
singer	398	skate boy	279	skiver, Fortuna	414
singer (finishing)	384	skate mechanic	279	skiver (leather works)	338
singer (lustia)	398	skate mechanic (skating rink)	399	skiver, middle sole	414
singer (bait)	428	skate storeman (rink)	399	skiver, puff	414
singer, horse	725	skate dyer	399	skiver, shank	414
singer, pig	448	skater (flax and hemp)	943	skiver, split lift	414
singer (rattle)	398	skinner (silk winding)	371	skiver, stiffening	414
singer, chorus	398	skinner (textile dyeing)	381	skiver, tube	609
singer, electric	398	skinner (bleed)	367	skiver, well	414
singer, professional	398	skinner (twine)	367	skiver machine operator	414
singer (vocalist)	398	skinner (winding—silk)	367	skiver machine operator, Amazon	414
singer-fitter	398	skinning machine minder	367	skull breaker	279
single doubler	366	skin feeder	367	skull filler (iron and steel)	279
single fatcher	399	skin feeder	367	skynight maker	474
single re-winder (cotton thread)	367	skin sorter	367	slabber (dye's)	381
single shooter	367	skin winder (not silk)	367	slabber, gelatin	159
single twister	366	skin winder (silk)	371	slabber, ivory	618
single winder (cotton thread)	367	sklop turner	266	slabber (pottery)	113
sinker, artesian well	580	sklop booker	399	slabber (sewing machine needles)	200
sinker, bobin	486	sklop maker	472	slabber, tile	371
sinker, charcoal	172	sklop rider	399	slabbing machineman	159
sinker, cylinder (bridge building)	581	sklober, design	398	slab carter	278
sinker, die	210	sklober, (fuses, sewing machines, etc.)	332	slab dyer	361
sinker, die (tool making)	265	skloch hand	218		
skier, engine die	210	sklower bottom dzer	499		
skier, head	561	sklower, cop (dyeing)	399		

Code Number.		Code Number.		Code Number.	
slab hand (sugar confec- tionary)	435	slater, paper	570	slipper maker, Devonshire	344
slab maker (chemical works)	578	slater, patchester	570	slipper maker, hat	412
slab maker, concrete	098	slater, rully	570	slipper maker, rubber	408
slab maker, concrete paving	096	slater, Westmorland	574	slipper presser	413
slab maker (for smelting fur- nace)	102	slate river	576	slipper pressman	413
slab maker, partition	098	slater's labourer	589	slipway labourer	692
slab maker, patent	090	slate sawyer	576	slip winder (not silk)	367
slab maker (quarry)	576	slate splitter	576	slip winder (silk)	371
slabman (quarry)	576	slate tank maker	575	slitter, agate	638
slab shear driver	276	slate unloader (quarry)	745	slitter, body (shirt, vest, bolesy)	428
slab shear operator	276	slate washer, labourer	589	slitter (cardboard boxes)	558
slack creeper	089	slaughterer, horse	448	slitter, cloth (typewriter rib- bons)	558
slackener	279	slaughterer (not horse)	448	slitter, film	639
Slack's machine grinder	237	slayer	368	slitter (glass)	138
slack wader	048	slayer, warp	370	slitter (glazed)	230
slack wheeler	049	slay finisher (textile machinery)	278	slitter, gold nib	230
slade picker	049	slay maker	278	slitter, handle (saw)	481
slag bankman	279	slay settler	278	slitter, metal (tubes)	278
slag boy	048	sledge	072	slitter, paper	550
slag breaker (slag dump)	099	sleeker	414	slitter (pens)	254
slag breaker (steel manufac- ture)	279	sleeker-up	414	slitter, side (pens)	254
slag brick maker	162	sleeper mill dipper	279	slitter, stone	638
slag burner	279	sleeper mill fireman	279	slitter, turf	039
slag contractor	279	sleeper mill furnaceman	279	slitter (wire works)	374
slag crusher, foreman	561	sleeper mill puncher	279	slitterman	559
slag filler (metal works)	279	sleeper mill shearer	279	sitting machine driver	518
slag filler (slag heap)	099	sleeper mill slinger	279	slitting machine man	363
slagger, blast furnace (copper)	276	sleeper pickler	099	sliver baller (jute)	363
slagger, furnace (iron and steel manufacture)	278	sleeper bag maker	608	sliver breaker	363
slagger (iron and steel manu- facture)	278	sleeping car attendant	702	sliver can maker (sire)	550
slagger (lead smelting)	171	slieve link maker	405	sliver can maker (metal)	254
slagger (puddling furnace)	279	slieve maker (dressmaker's)	405	sliver doubler (flax, hemp)	363
slagger (zinc extraction)	276	slieve maker (tailor's)	404	sliverer	363
slagger's helper	279	sliever (not tailor's)	418	sliver lapper	363
slag getter	099	sliever (tailor's)	404	sliver lap tender	363
slag ladle engine man	279	slayer	368	sliver minder (flax and hemp)	399
slag loader	279	slay finisher (textile ma- chinery)	278	sliver minder (line rope)	399
slag loco driver	350	slay maker	278	sliver minder (wool combing)	363
slag loco man	350	slay settler	278	sliver tender	363
slag man (blast furnace labourer)	279	sliver (boiler cleaner)	952	slip brick maker	738
slagman (furnaceman)	171	sliver (celluloid)	513	slip cleaner	044
slagman (lead extraction)	279	sliver (dock labourer)	745	slip rider	048
slag mill foreman	561	sliver (glass)	136	slip maker	419
slag phosphate worker	561	sliver, potato	449	slip moulder	119
slag picker	149	sliver (steel ingots)	278	slip padder	383
slag sorter	049	sliver, machinist (celluloid)	618	slusher	429
slag tester (copper)	276	sliver (boots, shoes)	414	slut drillers	200
slag tipper	276	sliver (leather dressing)	414	slutter, axle	390
slag tipper (blast furnace)	279	slide bolt header	276	slutter (cardboard)	548
slag tipper (steel manufac- ture)	279	slide machine attendant	499	slutter (colliery)	053
slag trier (copper extraction)	276	slide (match boxes)	499	slutter, flyer (textile ma- chinery)	200
slag watcher (steel manufac- ture)	276	slide maker, dark	473	slutter, machine knife	200
slag wader	279	slide maker, lantern	327	slutter (metal)	200
slag wheeler (blast furnace)	279	slide maker, transfer	556	slutter, plate	200
slag works crusher	098	slide maker (patent fuel)	096	slutter, rod	200
slasher	369	slide (matchbox)	949	slutter, spring	200
slasher, dry	369	slide (metal turner)	200	slutter and planer, wall	200
slasher, warp	369	slide, shaft	290	slutter machinist	200
slasher-drier	369	sliding machine man	200	sluttering machine man	200
slasher's labourer	369	sliding partition maker	474	slut tester, bobbin	499
slate cutter (quarry)	576	slimmer	024	slubber (cotton)	363
slate dresser	576	slinger (agricultural)	989	slubber (wool combing)	363
slate canneller	582	slinger (boiler)	989	slubber (leather)	336
slate filler	576	slinger (builder's scaffolding)	989	slubbing dyer	381
slate finisher	576	slinger (crane)	989	slubbing frame tender (cotton)	363
slate fitter	576	slinger, crane	989	slubbing frame tender (wool combing)	363
slate grinder	073	slinger, furs	989	slubbing frame tender (wool combing)	363
slate hole cutter	576	slinger (railway)	989	slubbing tender (cotton)	363
slate loader (quarry)	743	slinger, sleeper mill	072	slub frame tender (wool comb- ing)	363
slate machinist	576	slinger (stone mine or quarry)	072	slub frame tender (wool comb- ing)	363
slate maker	576	slinger (textile mill)	398	slub tender (cotton)	363
slate maker, stone	576	slip checker	706	sludge pit man	139
slate maker, writing	576	slip decorator	185	sludge presser (sewage dis- posal)	970
slate mason (slate slat tory)	576	slip house man	104	slugging (boots)	414
slate mill cleaner	576	slip kiln fireman	119	slugging, best	414
slate mill worker	576	slip labourer	659	slugging (leather dressing)	338
slate mixer	073	slip lad	709	slugging machine operator	414
slate pencil maker	576	slip maker	104	slugging machine operator	414
slate pencil worker	576	slip maker, clay	104	sluice attendant	741
slate picker (quarry)	576	slip maker, glass	104	sluice bridge attendant	741
slate planer	576	slipman and drainage ganger	561	sluice bridge keeper	741
slate polisher	576	slip mixer (cement)	061	sluice bridge man	741
slate quarrier	073	slip mucker	404	sluice bridge master	741
slater	570	slipper, coursing	399	sluice keeper (land drainage)	026
slater, asbestos	570	slipper, ivory	613	sluice keeper (river, canal, &c.)	741
slater, blue	570	slipper (shoemaking)	276	sluice man (canal, &c.)	741
slater, foreman	581	slipper, tie	413	sluice man (waterworks)	696
slater, grey	570	slipper (twine)	364	sluice master	741
		slipper boy	413	sluice valve repairer (water works)	696
		slipper cutter	414	slumser	041
		slipper finisher	413	slurry dryer (cement)	099
		slipper lad	704	slurry man (cement)	098
		slipper machinist	414		
		slipper maker, carpet	414		

	Code Number.		Code Number.		Code Number.
slurry man (patent fuel)	098	smith, perambulator	(Sre)	snipper ender	399
slurry make	098	smith,	190	snipper feeder	399
slurry mixer	099	smith, perambulator cold	278	snipping ender	399
slurry pond man	099	smith, perambulator fire	190	snipping feeder	399
slurry pond navy (building)	381	smith, permanent way	278	snob	412
slurry pond navy (cement)	099	smith, pipe	190	snoed maker (rope and twine)	398
slurry spreader	099	smith, pneumatic hammer	190	snoel maker in walk	398
smackman	000	smith, quarry	190	snoel	379
small case maker	345	smith, saw	190	snow remover	459
small coke washer	089	smith, scissor	278	snow grinder	459
small goods maker	(cooked)	smith, scissor	190	snoel maker	458
meats, &c.)	448	smith, scissor	190	snoel, hobbin	458
small goods maker (pastry-	433	smith, scythe	190	snoel, husk	399
cook)	433	smith, section (machine knife)	190	snoel, leather)	333
small holder	011	smith, sheet iron	264	snoel, lime	333
small runner (coke arena)	069	smith, shoeing	190	snoel fireman	333
small runner (messenger)	753	smith, signal	190	snoel handler	333
small speed tender	363	smith, spiral spring	190	snoel headman	333
small ware maker-up	943	smith, spring hammer	190	snoel	333
smallware stallkeeper	777	smith, stamp	190	snoel boiler	333
small worker (billiard table)	473	smith, steam hammer	190	snoel boiler, hard	333
small worker (pianos, organs)	642	smith, stern frame (ship-build-	190	snoel boiler, soft	333
small maker	542	ing)	190	snoel boiler, toilet	333
smaller	143	smith, tube	190	snoel boiler (wool preparing)	333
smaller (leather dressing)	073	smith, tube (copper)	227	snoel boiler hand	333
smaller (waterproof garment)	688	smith, turret clock	190	snoel cutter	333
smaller	279	smith, wagon	190	snoel (bleaching, dyeing,	333
smaller (brewery)	458	smith, weighing machine	190	printing)	333
smaller, crank	458	smith, wheel	190	snoel (clothing factory)	333
smaller catcher	006	smith, white metal	267	snoel (ocean waste)	333
smaller, arsenic	171	smith, (cutlery)	190	snoel (iron and steel tubes)	333
smaller, bismuth	171	smith, (files)	190	snoel, open	333
smaller (brass foundry)	184	smith, machine knife	190	snoel, rope	333
smaller, bronze	171	smith, (saws)	278	snoel frame stripper	333
smaller, hullion	298	smith, section (machine	190	snoel grinder, dry	333
smaller (copper)	171	smith's assistant	190	snoel machine minder	333
smaller (foundry)	162	smith's backbander, angle	279	snoel iron maker	333
smaller, gold	298	iron	279	snoel maker, hard	333
smaller (gold, silver)	298	smith's finisher	190	snoel maker, soft	333
smaller, gold and silver	298	smith's fireman	279	snoel maker, toilet	333
smaller (open hearth steel)	171	smith's fitter	190	snoel powder grinder	333
smaller, silver	298	smith's hammerman	190	snoel powder maker	333
smaller, sweep	298	smith's hammerman, angle	190	snoel powder miller	333
smaller, tin	171	iron	190	snoel splitter (oil refining)	333
smaller, tin cupola	171	smith's heater, scythe	190	snoelstone grinder	333
smaller, tin furnace	171	smith's helper, angle iron	333	snoel waste remover	333
smaller (tin)	171	smith's pattern keeper	541	snoel cutter	333
snoel fisherman	000	smith's pressman	190	snoel	333
snoel furnaceman (copper)	171	smith's scale attendant	279	snoel	333
snoel pot maker	103	smith's shop assistant	279	snoel	333
snoelman, arsenic	171	smith's striker	190	snoel	333
snoel mill man (lead)	171	smith's striker, anchor	190	snoel	333
snoel man	190	smith's striker, angle iron	190	snoel	333
smith	190	smith's striker, saw	190	snoel	333
smith, agricultural machine	190	smith's striker, coach	190	snoel	333
knife	190	smith's striker, flanging	190	snoel	333
smith, anchor	190	smith's striker, general	190	snoel	333
smith, angle iron	190	smith's striker, hand forge	190	snoel	333
smith, angle	190	smith's striker, wagon spring	190	snoel	333
smith, art metal	221	smith's work fitter	190	snoel	333
smith, axle	190	smithy	279	snoel	333
smith, axle box	190	smithy labourer	279	snoel	333
smith, blade (cutlery)	190	snoek cutter	413	snoel	333
smith, Bradley hammer	190	snoeker	413	snoel	333
smith, bright	267	snoek box lad	709	snoel	333
smith, Britannia metal	267	snoek-jack (gas works)	699	snoel	333
smith, bull dozer	190	snoeker, bacon	437	snoel	333
smith, carriage	190	snoeker (fish)	437	snoel	333
smith, coach	190	snoeker, fish	437	snoel	333
smith, coach spring	190	snoeker, haddock	437	snoel	333
smith, coeper pan	227	snoeker, ham	437	snoel	333
smith, drop hammer	190	snoeker, night	437	snoel	333
smith, engine	190	snoek-room assistant	437	snoel	333
smith, engine tool	190	snoothener	138	snoel	333
smith, file	190	snoothar, barrel	238	snoel	333
smith, firebox	190	snoother (bricks)	118	snoel	333
smith, fire box frame	190	snoother (clothing trades)	428	snoel	333
smith, flanging	190	snoother (glass)	138	snoel	333
smith, foundry	190	snoother (pottery)	105	snoel	333
smith, frame	273	snoother and polisher (lens)	138	snoel	333
smith, general	190	snoedage picker	049	snoel	333
smith, german silver	267	snootherman	432	snoel	333
smith, hand forge	190	snoap cap	238	snoel	333
smith, hook (treeping hook)	190	snoap cap maker	149	snoel	333
smith, hydraulic press	190	snoaper (files)	279	snoel	333
smith, iron wheel	190	snoap maker (gold and silver)	284	snoel	333
smith, link	190	snoapper	043	snoel	333
smith, machine	190	snoapper-on	041	snoel	333
smith, machine knife	190	snoatcher, number	279	snoel	333
smith, medicinal	221	snoecker	049	snoel	333
smith, metal (gas meters)	273	snoeck lifter	054	snoel	333
smith, motor	190	snoeck shifter	054	snoel	333
smith, Oiler	243	snoekler	279	snoel	333
smith, podlock	243	sniper	279	snoel	333
smith, perambulator (gold	278				

Code Number.		Code Number.		Code Number.	
setting and filtering atten- dant	539	sorter, chief	331	sorter, paper (waste materials)	964
setting furnace band	279	sorter (cigar)	468	sorter, parcel (U.P.O.)	753
setting furnaceman	171	sorter, cigar	468	sorter, parcel (railway)	706
soft finisher	410	sorter, cigarette	469	sorter, post (sheepskins)	338
soft sizer (needles)	238	sorter, clock	396	sorter (photographic plates, etc.)	689
soft silk piecer (throwing)	399	sorter, coal	349	sorter, pick	047
soft silk piecer (winding)	371	sorter, coal mine	349	sorter, piece (examiner)	379
soft silk winder	371	sorter, cotton bean	349	sorter, piece (grey room)	056
soft soap boiler	159	sorter, copper ore	538	sorter, pitchblende	429
soft soap maker	159	sorter, cork	379	sorter, placing straw	118
soft solder	287	sorter (cotton doubling)	964	sorter (pottery)	399
soft straightener (needles)	278	sorter, cotton waste	349	sorter, print	429
soft felt maker	688	sorter, coupon	379	sorter, puff	429
soil remover	352	sorter (delivery room—finish- ing)	379	sorter, pumice stone	998
solder	262	sorter, diamond	929	sorter, rag	964
solder, binding band (tin)	262	sorter (dyer's and cleaner's)	449	sorter (raw silk)	396
solder, brass	262	sorter, egg	559	sorter, rod	472
solder, brass tube	262	sorter (envelope making)	619	sorter, rubber	603
solder, cap (electric lamp)	318	sorter (ernoid)	519	sorter (rubber boots and shoes)	608
solder, comb needle	262	sorter, esparto grass	639	sorter (rubber reclamation)	608
solder, flange	318	sorter, fancy feather	342	sorter, sack	518
solder, hard (metal)	262	sorter, felt	639	sorter, scaleblende	619
solder, hard (precious metals)	262	sorter, fibre (brush, broom)	398	sorter (scrap metal)	279
solder, kettle	262	sorter, fibre (raw silk)	398	sorter, scrap (metal works)	279
solder, soft	262	sorter (fire clay mine)	964	sorter, scrap metal	964
solder and jointer, case	325	sorter, flannel	398	sorter, seed	389
soldering machine minder	262	sorter, flax and hemp	398	sorter, shale (blast furnace)	279
sole attach	414	sorter, foot	332	sorter, shale (metalliferous mine)	054
sole blocker	425	sorter, football	074	sorter (silk throwing)	388
sole brander	425	sorter, forest wool	964	sorter, skin	388
sole channeller	425	sorter, fossil	398	sorter, skin	330
sole channel opener	425	sorter, fruit (jam making and fruit preserving)	449	sorter, slag	278
sole enter (boot, shoe)	413	sorter (galvanised sheet)	278	sorter, sole	429
sole cutter (clog)	496	sorter, gear	856	sorter, steel	279
sole cutter, clog	496	sorter, gelatine	379	sorter, square	429
sole cutter, machine	496	sorter (general engineering)	132	sorter (steel manufacture)	279
sole levelling machine operator	414	sorter (glass)	429	sorter (stick making)	484
sole maker (boot, shoe)	414	sorter, glove	733	sorter, stiffening	429
sole maker (clog)	496	sorter (grey room)	195	sorter, stocking (waste mate- rials)	964
sole maker, clog	496	sorter, gum	559	sorter, stopper	459
sole maker, rubber	502	sorter, hair (brush, broom factory)	638	sorter (tape)	350
sole moulder	414	sorter, hair (horsehair)	398	sorter, tea lead	279
soleboard winder	305	sorter, hank	398	sorter, tickle	989
sole passer	414	sorter, head (galvanised sheet)	278	sorter, tin	279
sole rounder	414	sorter, heel pad	609	sorter (tin boxes)	278
sole sewer	414	sorter, hide	338	sorter (tinplate)	278
sole sewer, Blake	414	sorter, horsehair (carding)	363	sorter, tin (tin boxes)	278
sole sewing machine operator	414	sorter, horsehair (grading)	379	sorter, tin (tinplate)	278
sole sorter	429	sorter, hosiery	608	sorter, tin foil	429
sole stamper	429	sorter, india rubber	429	sorter, tire	399
sole tacker-on	414	sorter, isolate	279	sorter, wagon	704
solicitor, traffic	339	sorter, iron	618	sorter, ware	118
solicitor's cashier	339	sorter, ivory	559	sorter, warehouse	338
solicitor's clerk	339	sorter, label	319	sorter (waste materials)	964
solid tyre fitter	649	sorter (lamp)	429	sorter, waste (paper mill)	398
solid tyre trimmer	609	sorter (laundry)	918	sorter, waste (textile mill)	398
solitaire maker	264	sorter, leaf	463	sorter, waste (tin boxes)	279
solventer, balata	802	sorter (leather)	338	sorter, waste paper	519
solventer (beats)	429	sorter, leather (G.P.O.)	706	sorter, waste wood	494
solventer, hat leather	325	sorter, letter (G.P.O.)	429	sorter, welt	618
solventer (rubber)	606	sorter, letter (railway)	429	sorter, wheelbarrow	472
solventer, rubber	606	sorter, lift	964	sorter, wire tooth (card cloth- ing)	278
solventist (acropilanes)	606	sorter, lime	149	sorter, wool	360
solventist, professional (com- petitors)	989	sorter, linen	964	sorter, woollen waste	964
solutionist (rubber)	606	sorter (manure)	964	sorter (worsted, for dyer)	398
solutionist, rubber	606	sorter, marine stores	399	sorter, yarn (examining)	379
solution maker, balata	618	sorter, mast	360	sorter, yarn (grading)	398
solution maker (celluloid)	602	sorter, merino (textile mill)	964	sorter and refiner, cloth	264
solution maker (rubber)	602	sorter, merino (waste mate- rials)	964	sorter and wiper (dog iron)	514
solution mixer, bleaching	519	sorter, metal (general en- gineering)	279	sorter in skin room	074
solution mixer (rubber)	602	sorter, metal (waste)	964	sorter-out (grey room)	388
solvent recoverer (celluloid)	142	sorter, metal (walliferous mine)	358	sorter-out, piece	379
solvent recovery man	142	sorter, mica	429	sorter-out, print	399
solvent rectifying man	42	sorter, middle sole	360	sorting clerk and telegraphist (Post Office)	755
sorter, boiler	952	sorter, mohair	278	sorting guard	702
sorter, auxiliary	753	sorter (needles-hand)	379	sorting guard, parcels	702
sorter, bag	099	sorter (needles-machine)	964	sorting machine man, esparto grass	519
sorter, bass	638	sorter, new clip (textile mill)	360	sorter	581
sorter, biscuit	449	sorter, new clip (waste mate- rials)	964	sound board adjuster (pianos and organs)	498
sorter, bobbin	399	sorter, nut	964	sound board hand (organs)	643
sorter (bolts, nuts, etc.)	279	sorter, nut (sugar confec- tionery)	964	sound board hand (pianos)	498
sorter, bone	159	sorter, oakum	964	sound board maker (organs)	643
sorter (boot and shoe plates)	279	sorter, old cotton	054	sound board maker (pianos)	498
sorter (boot leather)	414	sorter, ore	518	sounder, survey (dock or har- bour authority)	748
sorter (boots)	429	sorter (paper mill)	349		
sorter, bottle	964	sorter, paper (paper mill)	518		
sorter, brick	118	sorter, paper (wallpaper)	518		
sorter, brush	638				
sorter (brush making)	638				
sorter, button	689				
sorter, cake (flour confec- tionery)	449				
sorter, cane	449				
sorter, case chair	449				
sorter (card and pasteboard)	519				
sorter, carpet	603				
sorter (celluloid)	619				

	Code Number.		Code Number.		Code Number.
soup cook (hotel, etc.)...	309	spell joiner	151	spinner, hair	365
soup cook (ship)	327	spell welder	266	spinner, hair line	365
soup kitchen worker	448	spelter calcinar	171	spinner, hand mule	365
soup maker, liquid	448	spelter furnaceman	171	spinner, hand (mule)	365
soup maker (soup powder)	448	spelterman (galvanised sheet)	941	spinner, bay	639
sourer (bleaching)	380	spelterman (zinc extraction)	270	spinner, bay hand	638
sourer (finishing)	384	spelter refiner	171	spinner, bay rope	639
assuring machine minder	380	spelter worker (zinc extrac- tion)	270	spinner, beard	365
sour/wester maker	419	sperm presser	278	spinner, horse hair	365
sovereign purse maker	284	spermeeti maker	158	spinner, jute	365
sex band (hosier)	374	spermeeti man	158	spinner (metal)	365
space band miller (linotype machine)	260	spermeeti refiner	158	spinner, metal	247
spade and shovel cutter-out	279	spewing machine attendant	602	spinner, mule	365
spade and shovel finisher	278	spice seller	448	spinner (musical instrument strings)	688
spade and shovel forger	190	spice grinder	448	spinner, oakum (shipbuild- ing)	689
spade and shovel barker	486	spice miller	448	spinner, orris (gold, silver)	370
spade and shovel shifter	278	spice maker (sweets)	435	spinner, patent doffing frame	365
spade and shovel shaft finisher	498	spice breaker	279	spinner, ring	365
spade and shovel tree maker	436	spice charger	279	spinner, ring frame	365
spade glasser	238	spiegel cupola charger	171	spinner, rope (cable)	468
spade hand	425	spiegel cupola man	171	spinner, rope (textile)	365
spade handle maker	485	spiegel tanner (steel manufac- ture)	278	spinner, rope yarn	269
spade bind	624	spiegel washer	279	spinner, self-actor	365
spade labourer	624	spigot maker	486	spinner, semi-fuse	369
spade man	624	spike forger	190	spinner, sewing cord	371
spade stamper	190	spiker (clothing factory)	428	spinner, silk	372
spaller	656	spike maker	428	spinner, silk (artificial silk)	143
spaller, copper ore	407	spiker	379	spinner, silk cord	371
spangle sewer	335	spiculet grip window	608	spinner, silver thread	287
Spanish leather dresser	335	spindle and flyer tester	278	spinner, silver twist	398
Spanish leather roller	335	spindle barker (rolling mill)	178	spinner (span silk)	363
spanner finisher	278	spindle bander	210	spinner, straw band	639
spanner forger	190	spindle box minder	363	spinner, straw rope	639
spannerman (iron and steel works)	279	spindle furnaceman	171	spinner, taps (mining and safety frames)	365
spare and floor spar cutter...	638	spindle gauger	278	spinner (textile mill)	365
spare and floor spar ornament maker	638	spindle gill bar minder	363	spinner, thistle	365
spare and floor spar ornament turner	638	spindle grinder	237	spinner, thistle frame	365
spare besterman	512	spindle hand	486	spinner (throwing silk)	372
spare charger (blast furnace)	279	spindle hand, wood heel	486	spinner, twist	365
spare dooler	396	spindle jigger	278	spinner, twine	365
spare filler	279	spindle machine hand	486	spinner, twine	365
spare goods guard	702	spindle mechanist	486	spinner, under	365
spare grinder	364	spindle maker	278	spinner, wet (flax or hemp)	365
spare hand (rolling mill)	178	spindle maker, flyer	278	spinner, wire	679
spare hand (trawler)	600	spindle maker, ring	278	spinner, yarn	369
sparehand gasman (blast fur- nace)	171	spindle moulder	406	spinner's assistant	468
spare hand keeper	171	spindle moulding machinet,	406	spinner's piece	365
spare-hand loader	042	spindle vertical	399	spinning potter	298
spare hand moulder	279	spindle oiler	399	spinning master	354
spare mechanician	512	spindle pointer	237	spinning mill steward (silk)	354
spare man (cement, etc. works)	609	spindler (assembler)	279	spinning mule head man	354
spare man (signalman)	703	spindler (lathe hand)	200	spinning mule overseer	354
spare man porter	703	spindler (printing works)	530	spinning mule piece	375
spare relet guard	703	spindle roller	210	spinning mule taster	354
spare signalman	363	spindle settler	210	spinning overseer	354
spare tender	309	spindle slotter	210	spinning piece	365
sparkling plug maker	222	spindle straightener	278	spinning table setter	399
spark maker, iron	486	spindle stretcher	278	spiral cutter	200
spark maker (wood)	076	spindle tester	278	spiral spring smith	190
spark miner	254	spindle tester, ring	486	spiral turner	486
sparrow bill cutter	190	spindle timber (cotton)	399	spiral winder	559
sparrow bill maker (forged)	190	spinner (artificial silk)	143	spiral winder	450
sparrow bill maker (stamped)	190	spinner, asbestos	365	spirit clerk	339
special brick maker	102	spinner, bar	269	spirit dryer	140
special cutter	402	spinner, bell	247	spirit level maker	312
special examiner, chief	700	spinner, bag	365	spirit madder	899
specialist, beauty	920	spinner, billy	365	spirit mixer	148
specialist, complexion	920	spinner, bracelet	254	spirit shop worker (celluloid)	149
special part band (hosier machine)	210	spinner, brass	247	spirit varnish maker	153
special presser	404	spinner, bump mill (cotton waste)	365	spitter (fish curing)	437
special pump attendant	034	spinner, cap	365	spitter (needles)	279
special staff man (signalman)	703	spinner, calgut	688	spittle maker	486
special station platform porter	706	spinner, copper	247	spitchee (copper rolling)	279
spectacle case maker	278	spinner, cord (doubling)	366	splicer (boots)	618
spectacle frame maker	278	spinner, cord (rope)	373	splicer, cable (electrical)	311
spectacle frame maker (optical works)	322	spinner, cotton	365	splicer, cable (wire rope)	269
spectacle maker	322	spinner, double	365	splicer, coal yarn	398
speed carder	333	spinner, doubling	366	splicer (electric cables)	311
speed fitter (textile machinery)	370	spinner, dry (flax and hemp)	365	splicer, hand	375
speed frame overlooker	333	spinner, fancy cord	365	splicer (harness making)	344
speed frame tender	363	spinner, fly	365	splicer (leather belting)	343
speed gear fitter	210	spinner, flyer (not silk)	365	splicer (metalliferous mine)	654
speedometer fitter	278	spinner, flyer (silk)	372	splicer (ride pull-through)	428
speedometer maker	332	spinner, French	365	splicer, rope (coal mine)	643
speed tender	363	spinner, fuse	365	splicer, rope (railway)	705
speed tender, small	363	spinner, gill	365	splicer, rope (textile mill)	398
spelter	437	spinner, gins	370	splicer, silk	398
speller	296	spinner, gold and silver thread	398	splicer, thread	398
spell foreman	151	spinner, gold and silver twist	398	splicer, wire	668
		spinner, gold thread	398	splicer, wire rope, cable	269
		spinner, gold twist	398	splicer, wire rope, cable	269
		spinner, gut	688	splicer, wire rope, cable	269

	Code Number.		Code Number.		Code Number.
splicer (yarn, thread) ...	358	spool burner, wooden ...	466	spring dial weighing machine	
splicing hand (hoosey) ...	369	spool winder (electrical) ...	363	stiller ...	260
splicing hand (yarn winder) ...	367	spool winder (textile) ...	367	springer, carriage (textile) ...	278
spinning machinet ...	200	spoon and fork buffer ...	285	springer, case ...	325
spins cutter (matchbox) ...	486	spoon and fork filer ...	287	springer, case secret ...	325
spins dryer (matchbox) ...	488	spoon and fork finisher ...	285	springer (cotton) ...	368
spins feeder (matchbox) ...	449	spoon and fork hand polisher ...	265	springer, head (cotton) ...	366
spins machine attendant ...	486	spoon and fork polisher ...	287	springer, lip ...	362
spint maker (fruit baskets) ...	472	sporia outitter ...	279	springer, secret ...	362
spint maker (surgical appli- ance) ...	683	spotted net maker ...	378	springer (stoves) ...	279
spint preler ...	486	spoter (clothes cleaning) ...	529	springer (tubes) ...	278
spint shaker ...	149	spoter, golf ball ...	589	springer, umbrella ...	278
split lift machineman ...	413	spoter (lace finishing) ...	385	springer (watches, &c.) ...	323
split lift skiver ...	414	spotter (photographer's) ...	527	springer and timer ...	323
split pin maker ...	279	spot welder ...	248	spring examiner (axles) ...	278
split ring maker ...	273	spout girl ...	149	spring fastener (boot lasts) ...	496
split ring stamp ...	254	spout maker (metal) ...	264	spring fastener, hat ...	414
split shot cutter ...	279	spout maker (millers) ...	688	spring filter, elastic ...	210
splitter, bean ...	448	spout maker (pottery) ...	165	spring filter, opora hat ...	428
splitter, chief ...	331	spout maker, (wood) ...	474	spring gauge (axles) ...	278
splitter, cloth ...	384	spout man (cement) ...	059	spring gauge (water works) ...	696
splitter (cooperage) ...	477	spout man (distillery) ...	450	spring hammer smith ...	190
splitter, cylinder ...	124	spoutman (grain milling) ...	449	spring hook finisher ...	278
splitter, delivery room ...	384	spout man (steel works) ...	273	spring hooper ...	279
splitter, fish ...	446	spragger (coal mine) ...	643	spring knife cutter ...	228
splitter, fork (agricultural, do., forks) ...	190	spragger, drum ...	254	spring knife dollar ...	228
splitter (glass) ...	124	spragger (metal mine) ...	054	spring knife setter-in ...	228
splitter, glass ...	124	spragger (railway) ...	704	spring lock maker ...	243
splitter, haddock ...	448	spragger, scotch ...	704	spring maker ...	273
splitter, hat ...	338	spragger, tram ...	043	spring maker, balance ...	324
splitter, hump ...	498	spragman ...	043	spring maker, carriage (tex- tile) ...	278
splitter (leather) ...	338	sprag sherman ...	000	spring maker (coil) ...	279
splitter, lemon ...	449	sprat picker ...	448	spring maker, flat ...	278
splitter, mica ...	058	sprayer, air (paint) ...	241	spring maker, laminated ...	190
splitter (needles) ...	254	sprayer (artificial flowers) ...	688	spring maker, pendulum ...	224
splitter, orange ...	443	sprayer (artificial flowers— fabric) ...	688	spring maker, railway ...	190
splitter, palm leaf (straw pals) ...	429	sprayer (bakings powder) ...	445	spring maker, secret ...	325
splitter, pea ...	443	sprayer (celluloid) ...	615	spring maker, shuttle ...	278
splitter, pearl ...	518	sprayer, fruit ...	025	spring maker, truss ...	278
splitter, felt ...	338	sprayer (gloves) ...	429	spring maker (watch, &c.) ...	324
splitter, point (pens) ...	254	sprayer, machine ...	592	spring maker ...	279
splitter, potato ...	024	sprayer, paint ...	241	spring mattress maker ...	268
splitter (raw silk) ...	388	sprayer, pistol ...	335	woven wire ...	268
splitter, shoe ...	376	sprayer (silk finishing) ...	384	spring mattress weaver ...	268
splitter (slate worker) ...	578	sprayer, tar ...	581	spring painter ...	593
splitter, soap (oil refining) ...	159	sprayer (tin boxes, &c.) ...	599	spring panisher ...	254
splitter (stone mine or quarry)	072	sprayer, moulder ...	181	spring scraper ...	278
splitter (toxicity finishing) ...	384	sprayerboard attendant ...	363	spring scissor ...	278
splitter, warp ...	367	spreader, axe ...	130	spring slider ...	200
splitter, warp yarn ...	384	spreader (candles) ...	159	spring smith ...	190
splitter, warp yarn (dyeing) ...	367	spreader (canvas dressing) ...	418	spring smith, coach ...	190
splitter, whalebone ...	618	spreader, card clothing rubber	602	spring smith, spiral ...	190
splitter, wood ...	499	spreader, coal (gas works) ...	689	spring smith, wagon ...	190
splitter (yarn) ...	367	spreader, coke (gas works) ...	699	spring stripper ...	279
splitter, yarn ...	367	spreader (cotton) ...	363	spring terminal fitter ...	210
splitter girl ...	139	spreader (double) ...	363	spring tester ...	278
splitting machine feeder ...	338	spreader (fax and bemp) ...	367	spring unhooker ...	279
spoke tipper ...	849	spreader (gas works) ...	699	springer filter ...	251
spoke bender, wheel ...	190	spreader (gelatine) ...	159	sprinkler pipe jointer ...	251
spoke bender (wood) ...	475-6	spreader (India rubber) ...	692	sprinkler putter-in ...	549
spoke dealer ...	475-6	spreader (leather cloth) ...	639	spruney boy ...	043
spoke cutter ...	475-6	spreader, line ...	363	spur bobber ...	238
spoke bower ...	475-6	spreader, lousage ...	449	spur bobber and polisher ...	238
spoke maker ...	475-6	spreader, plunger ...	689	spur shaker ...	279
spoke tender ...	475-6	spreader (rubber) ...	689	spur forger ...	190
spoke machinist ...	419	spreader, rubber ...	682	spur leather maker ...	344
spokehave maker ...	419	spreader's assistant, colour ...	635	spur maker ...	105
spoke sticher ...	419	spreader (silk) ...	363	spurrier ...	190
sponge cleaner ...	158	spreader (single) ...	059	spur tackle fitter ...	278
sponge cloth presser ...	399	spreader, slurry ...	363	spur tackle ...	278
sponge cutter ...	158	spreader, stone ...	581	squabber (edge lock) ...	254
sponge dresser ...	158	spreader, tobacco ...	449	square keeper ...	013
sponge mixer ...	433	spreader, yarn ...	399	squarer, block ...	575
sponger, flat ...	106	spreader machine minder (fax and bemp) ...	363	squarer (diamond polishing)	638
sponger of clay ware ...	165	spreading machine attendant	639	squarer (glass) ...	138
sponge trimmer ...	158	spreading machine driver ...	319	squarer, rings (iron) ...	278
spool blocker ...	486	spring cleaner ...	429	squarer (iron rings) ...	278
spooler, automatic ...	371	springer (boots) ...	429	squarer (leather belting) ...	278
spooler, film ...	689	springer (embroidery) ...	407	squarer (needles) ...	254
spooler (cassio rolls) ...	538	springer, heel (boots) ...	429	squarer, paint ...	398
spooler (not silk) ...	367	spring maker (hand) ...	376	squarer, stone ...	575
spooler (silk) ...	371	spring maker (machine) ...	376	squarer (stone dressing) ...	575
spooler, silk ...	371	spring mender ...	379	squarer (stone mine or quarry)	072
spooler (spun silk doubling) ...	371	spring polisher ...	429	squarer, timber (side) ...	458
spooler, thread ...	367	spring twister ...	376	squarer, timber (saw) ...	451
spooler, twine ...	399	spring worker (hand) ...	376	squarer rim hand ...	459
spooler, warp ...	369	spring worker (machine) ...	376	squarer-up ...	343
spooler, wire ...	279	springing and click maker ...	274	square corner ...	499
spooler, yarn (rope and twine)	367	spring balance adjuster ...	260	squash request maker ...	683
spool gatherer ...	339	spring balance maker ...	260	squash request stringer ...	688
spool maker (hard wire) ...	499	spring bar and swivel maker ...	190	squasher (bleaching) ...	380
spool maker (music rolls) ...	538	spring bar forger ...	190	squasher (dyeing) ...	399
spool maker-up ...	343	spring beacot maker ...	254	squasher, hollow-ware ...	165
spool sorter ...	399	spring buckler ...	284	squasher, mould ...	190
spool turner ...	426	spring case maker ...	254	squasher (steel tubes) ...	296
		spring collar ...	279		

	Code Number.		Code Number.		Code Number.
squeezer, wad	119	stainer (glove, leather)	335	stamper (iron tube fittings)	190
squeezer attendant	380	stainer, paper	543	stamper (jacquard)	396
squeezer man (puddling furnace)	278	stainer, soldier's	598	stamper, jacquard	396
squeezing machine	300	stainer (wood)	598	stamper (jewelry and plate)	284
squeezing machine minder (bleaching)	300	stainer, wood	598	stamper, key (needles)	256
squeezing machine minder (dyeing)	399	staircase builder	474	stamper, kick	317
squirrel, lead (cartridges)	778	stairman	741	stamper (lamps)	317
stable attendant, training	859	stair master	731	stamper (lead pencil gliding)	338
stable boy	725	staker (basket making)	472	stamper (lead pencil machine blocking)	496
stable boy (racing stables)	580	staker (clothes or leather)	334	stamper (leather)	339
stable brick maker	102	staker-on	138	stamper (leather cloth)	639
stable foreman	715	stamping machine operator	334	stamper, lining	429
stable helper	725	stake maker	466	stamper, machine (paper staining)	552
stable keeper, livery	725	stallion, deer	910	stamper, machine (trade mark)	948
stable keeper	725	stallion leader	910	stamper, matrix	278
stable labourer	725	stall keeper	777	stamper, metal	254
stable lad	686	stall keeper, coffee	777	stamper (metalliferous mine or working)	058
stallman	725	stall keeper, fruit	777	stamper, monogram	552
stallman (colliery)	947	stallkeeper, stallwara	777	stamper, needle	254
stamper, artificial flag	098	stallman	725	stamper (not hot or hydraulic)	254
stamper (bacon curing)	437	stamp attendant	056	stamper, number	279
stamper (blast furnace)	279	stamp cleaner	279	stamper, ore	638
stamper (bolts, nuts, etc.)	453	stamp cutter	230	stamper, paint brush	052
stamper (bottled beer)	453	stamp cutter, bleacher's	230	stamper (paper flower)	552
stamper (bricks)	419	stamp cutter, copper	230	stamper, pattern card	552
stamper (cardboard boxes)	559	stamp cutter, steel	230	stamper (piano)	409
stamper, cast	459	stamp dealer	779	stamper, pick	190
stamper, clay	119	stamp designer	230	stamper, pocket blade drop	190
stamper, coal (gas works)	689	stamp designer, bleacher's	230	stamper (pottery)	106
stamper, coal (railway)	085	stamp designer, copper	230	stamper, printer's	337
stamper, coke (coke works)	689	stamp dresser and sizer (tubes)	279	stamper, rail	552
stamper, coke (gas works)	689	stamper, artificial flower	463	stamper, relief	552
stamper (coopering)	496	stamper (paper)	552	stamper, ring	190
stamper, fishplate	279	stamper (Assay Office)	250	stamper (rolling mill)	190
stamper (foundry yard)	279	stamper, bench	286	stamper, rubber	608
stamper (iron and steel rolling)	478	stamper, bolter (fish eaters)	286	stamper (rubber goods)	609
stamper (jam making)	446	stamper, bolter (knife)	190	stamper, scale (bone, horn, etc., handles)	613
stamper (paper, cardboard)	518	stamper (books)	429	stamper, sealing wax	190
stamper, pig iron	446	stamper, box	949	stamper, shell (brass)	254
stamper, pos (jam making)	446	stamper, brass	639	stamper, shell (steel)	190
stamper, pot (warehouse)	942	stamper (brasses and brushes)	639	stamper, silver	537
stamper (puddling furnace)	279	stamper, buckle	552	stamper, size	429
stamper, rail	279	stamper, button	688	stamper, soap	156
stamper, slave (coopering)	496	stamper, canoe	552	stamper, sock	429
stamper (warehouse)	942	stamper, card	396	stamper, spade	254
stamper and packer	942	stamper (chisel)	619	stamper, split ring	254
stamperman (gas works)	989	stamper, chair rail	254	stamper (smithy)	190
stamperman (white lead)	148	stamper, cloth (grey room)	399	stamper (stationary)	552
stamper thatcher	024	stamper, coin	048	stamper (steel tube sockets)	429
staff caller	799	stamper (coke works)	429	stamper (stencil)	429
staff engineer (G.P.O.)	380	stamper, collar	254	stamper, table blade (forged)	254
staff engineer, assistant (G.P.O.)	380	stamper, die (metal)	552	stamper, table blade (pressed)	254
staffer, silk	336	stamper, dress pattern	190	stamper (textile warehouse)	943
staff maid (hotel)	800	stamper, drop (hat)	254	stamper (tile plate)	279
staff man (railway)	703	stamper, drop (not hot or hydraulic)	254	stamper, tyre	190
staff man (silk)	943	stamper, drop (precious metals)	254	stamper, wheel	438
staff man, special (signalman)	703	stamper, edge tool	254	stamper, wood babbler and	438
stage car driver	718	stamper (electric lamp)	125	stamper, wire saw bar	254
stage carpenter	474	stamper, eye (needles)	399	stamper and piercer	254
stage car proprietor	711	stamper, fancy box	552	stamper and piercer, die	254
stage carriage proprietor	711	stamper, felt	399	stamper man (poke and by-products)	088
stage coach driver	715	stamper, ferule	254	stamper's helper	279
stage doorkeeper	808	stamper (flax mill)	399	stamper's male	279
stage dressmaker	405	stamper (flower)	403	stamper's roller	279
stage foreman (gas works)	692	stamper, flower	403	stamp examiner	552
stage hand	807	stamper, flower (paper)	552	stamp floor dresser	056
stage machinist	807	stamper, flyer	190	stamping engine attendant	950
stage manager	807	stamper, folding box	352	stamping engine driver	950
stage manager, assistant	807	stamper, full heading relief	352	stamping machine attendant	698
stageman (gas works)	589	stamper (galvanized sheet)	279	stamping pad maker	159
stageman (grain milling)	449	stamper (glove making)	411	stamping, press hand	254
stageman (harbour, dock, etc.)	741	stamper, goaded blade	190	stamp labourer	279
stageman, head	741	stamper, gold (block printing)	537	stamp maker, bleacher's	056
stageman, landing	741	stamper, gold (pottery)	106	stamp make (copper, steel)	230
stageman (oil gas)	690	stamper, gold and silver	246	stamp maker, endoring (metal)	230
stageman (stone mine or quarry)	072	stamper, gold nib	246	stamp maker, endoring (rubber)	603
stager	688	stamper (grey room)	254	stamp maker, india rubber	608
stage rigger	688	stamper, gun metal	254	stamp maker, rubber	608
stage setter	687	stamper, hall mark	254	stamp mark cutter	056
stage whipper	043	stamper, hammer	190	stamp mark engraver	230
stage handle cutter	613	stamper, handle (cutlery)	190	stamp perforator	552
stage horn cutter	618	stamper (base)	429	stamp puller	279
slaging hand	364	stamper, heavy edge tool	190	stampman	056
slag put cutter	613	stamper, heraldic	552	stamp stich	190
stained glass window worker	138	stamper, bill	254	stampatcher	056
stainer, bone	619	stamper, box	190	stamp worker, kick	286
stainer, boot	429	stamper, book and eye	254	stamp worker, press	234
stainer, bottom (boats)	429	stamper, horse shoe	190	stanch attendant	741
stainer, briar pipe	598	stamper (hot)	190		
stainer (collodion)	619	stamper, hot	190		
stainer, dye	381	stamper, hot drop	190		
stainer, film (cinema)	527	stamper, insole	413		
stainer, film (photographic plates)	688	stamper (iron and steel stamping and drop forging)	190		
stainer (glass)	138				
stainer, glove	335				

Code Number.		Code Number.		Code Number.	
stanch keeper	741	station porter	917	stearine molder	159
stanch man	741	station superintendent (elec- tricity supply)	690	stearine pressman	159
stanch marker	741	station superintendent (rail- way)	730	stearine reclaimer	159
standard screw operator	414	statistical clerk	309	steel bar maker (textile) machinery	278
stand builder	210	stator maker	318	steel bar puncher	278
stand fitter, exhibition	474	stator winder	303	steel bender (concrete ship- building)	279
stand fitter (sewing machine)	210	stauncher, glue	159	steel cleaner (foundry)	279
standing forms storekeeper	941	stave maker, beam	458	steel component forger (cycles) steel converter	180
stand pipe man	279	stave maker, leveling	322	steel door fitter	210
stand-to-man	624	stave maker, round (textile machinery)	488	steel door maker	258
staple breaker	943	stave maker (wood)	488	steel drawer	254
staple brackman	943	staver (tubes)	278	steel dresser	180
staple lad	943	stave stacker (coopering)	499	steeler, mould (edge tools) steel eye maker (plane)	279
staple maker (iron)	190	stayer (coopering)	496	steel facer	524
staple maker (wire)	279	stayer (bealer-fitter)	278	steel folder erector	210
stapler, bobbin	279	stayer (boiler-machining) stayer (cardboard boxes) stayer (hoosery)	279 413 278	steel fork curlier	226
stapler, machine brush	633	stayer (hoosery)	413	steel fork putter-together	226
stapler, wood (dealer)	360	stayer (hoosery)	413	steel furnace man	171
stapler, wood (dealer)	360	stayer (hoosery)	413	steel girder erector	226
starch boiler	393	stayer (hoosery)	413	steel letter carrier	280
starch house	393	stayer (hoosery)	413	steel letter cutter	280
starch breaker	449	stayer (hoosery)	413	steel letter box	588
starcher, back	336	stayer (hoosery)	413	steel manager	279
starcher (carpet)	336	stayer (hoosery)	413	steel man, concrete's	279
starcher, clear	918	stayer (hoosery)	413	steel masting maker	289
starcher (laundry)	918	stayer (hoosery)	413	steel measurer	271
starcher (sewer)	435	stayer (hoosery)	413	steel plate printer	629
starcher (textile dressing)	394	stayer (hoosery)	413	steel presser	190
starcher (textile finishing)	394	stayer (hoosery)	413	steel press furnace man	171
starcher (textile printing)	394	stayer (hoosery)	413	steel press labourer	279
starcher (twin)	394	stayer (hoosery)	413	steel pressman	190
starcher and blower	394	stayer (hoosery)	413	steel roller, pen	176
starch filter, back	394	stayer (hoosery)	413	steel roller, strip	176
starch filter (starch factory) starch filter (textile finishing) starch grinder	394 394 449	stayer (hoosery)	413	steel rope maker	289
starch hand (female)	449	stayer (hoosery)	413	steel rope strander	289
starch hand (male)	449	stayer (hoosery)	413	steel sawyer	279
starch hand, male	449	stayer (hoosery)	413	steel settler	405
starch hand (sugar confec- tionery)	449	stayer (hoosery)	413	steel shaft maker (textile machinery)	278
starch inspector	435	stayer (hoosery)	413	steel sheet curlier (pens) steel shifter	278 278
starch machine hand (sugar confectionery)	449	stayer (hoosery)	413	steel stamp cutter	230
starch maker (starch factory) starch maker (textile mill) starch mangle	449 394 394	stayer (hoosery)	413	steel stanch	408
starch mill attendant	449	stayer (hoosery)	413	steel toy maker	190
starch millman	449	stayer (hoosery)	413	steel tube drawer's dogger-up steel tube turner	279 279
starch mixer	394	stayer (hoosery)	413	steel tyre presser	190
starch paddler	449	stayer (hoosery)	413	steel wire (wire works) steel worker, constructional steel worker, orthopaedic steel worker (steel manufac- ture)	220 289 583 278
starch preparer	394	stayer (hoosery)	413	steel yard fitter	280
starch room worker (sugar confectionery)	449	stayer (hoosery)	413	steel yard maker	280
starch scraper	449	stayer (hoosery)	413	steoper (bleaching)	380
starch shoveller	449	stayer (hoosery)	413	steoper (glass)	448
starch stove attendant	449	stayer (hoosery)	413	steoper (gunston)	143
starch valman	449	stayer (hoosery)	413	steoper (weld)	548
starch weigher	449	stayer (hoosery)	413	steoper (weld)	548
starch worker	449	stayer (hoosery)	413	steoper (weld)	548
starch wrapper	449	stayer (hoosery)	413	steoper (weld)	548
starching maker	149	stayer (hoosery)	413	steoper (weld)	548
star maker	149	stayer (hoosery)	413	steoper (weld)	548
starter, frame	394	stayer (hoosery)	413	steoper (weld)	548
starter, handle	394	stayer (hoosery)	413	steoper (weld)	548
starter (race)	394	stayer (hoosery)	413	steoper (weld)	548
starter, train	394	stayer (hoosery)	413	steoper (weld)	548
starter-off	138	stayer (hoosery)	413	steoper (weld)	548
star, average (insurance)	799	stayer (hoosery)	413	steoper (weld)	548
stater (farm)	011	stayer (hoosery)	413	steoper (weld)	548
staterman	011	stayer (hoosery)	413	steoper (weld)	548
station agent	700	stayer (hoosery)	413	steoper (weld)	548
stationary engine driver	950	stayer (hoosery)	413	steoper (weld)	548
stationary engine man	950	stayer (hoosery)	413	steoper (weld)	548
station cleaner (railway)	706	stayer (hoosery)	413	steoper (weld)	548
station cleaner (tramway)	729	stayer (hoosery)	413	steoper (weld)	548
station engineer, assistant (electricity supply)	690	stayer (hoosery)	413	steoper (weld)	548
station engineer, distributing (electricity supply)	691	stayer (hoosery)	413	steoper (weld)	548
station engineer (electricity supply)	690	stayer (hoosery)	413	steoper (weld)	548
stationer	770	stayer (hoosery)	413	steoper (weld)	548
stationer, fancy	770	stayer (hoosery)	413	steoper (weld)	548
stationer, law	770	stayer (hoosery)	413	steoper (weld)	548
stationer's binder	532	stayer (hoosery)	413	steoper (weld)	548
station foreman	706	stayer (hoosery)	413	steoper (weld)	548
station inspector	706	stayer (hoosery)	413	steoper (weld)	548
station inspector, goods	706	stayer (hoosery)	413	steoper (weld)	548
station lad	043	stayer (hoosery)	413	steoper (weld)	548
station lampman	706	stayer (hoosery)	413	steoper (weld)	548
station man, check	962	stayer (hoosery)	413	steoper (weld)	548
station modeler	700	stayer (hoosery)	413	steoper (weld)	548
station master, assistant	700	stayer (hoosery)	413	steoper (weld)	548
station master, night	700	stayer (hoosery)	413	steoper (weld)	548
station master, relief	700	stayer (hoosery)	413	steoper (weld)	548
station minder	943	stayer (hoosery)	413	steoper (weld)	548
station platform porter, spe- cial	706	stayer (hoosery)	413	steoper (weld)	548

	Code Number.		Code Number.		Code Number.
stencil plate cutter	278	sticker-in	384	stitcher (leather goods)	346
stencil wicker	535	sticker-on	299	stitcher, lining	410
stenographer	109	sticker-up (glass)	138	stitcher, lock (slippers)	414
stenter, clip	384	sticker-up (pottery)	105	stitcher, mattress	419
stenter (sashes)	384	stick maker, broom	485	stitcher, music case	345
stenter assistant	384	stick maker, brush	485	stitcher, overlock	419
stenter chain fitter	219	stick maker, drum	548	stitcher, palm	419
stenter driver	384	stick maker, hockey	683	stitcher (pattern)	379
stenterer	384	stick maker, map	485	stitcher, piece	419
stentererman	384	stick maker (walking stick)	484	stitcher, pluck crown	419
stenterer's assistant	384	stick moulder	287	stitcher, point	419
stenter feeder	384	stick mount maker	237	stitcher (printer's)	549
stentering machine minder	384	stick paperer	485	stitcher, saddle	344
stenterman	384	stick polisher	485	stitcher (sewer)	419
stenter man (charge hand)	384	stick sawyer	481	stitcher, silk	419
stenter minder	384	stick worker	472	stitcher, spike	419
stent wicker	943	stick bracelet maker	284	stitcher, steel	408
step cleaner	622	stitcher (artificial flowers)	688	stitcher, tennis ball	838
step maker	474	stitcher (finishing)	384	stitcher (textile finishing)	389
stereo finisher	524	stitcher, foreman	358	stitcher, whip handle	344
stereographer	527	stitcher, fur (hats)	409	stitcher, white room	419
stereotyper	524	stitcher (molekin)	384	stitcher, wire (bookbinder's)	549
stereotyper's assistant	524	stitcher (straw baling)	388	stitcher, wire (cardboard boxes)	559
sterilizer (hospital)	929	stitcher (straw hats)	428	stitcher, wire (printer's)	549
sterilizer, milk	448	stitcher blocker	414	stitcher, wire (straps)	279
sterilizer (telephones)	969	stitcher moulder	414	stitcher and stringer	419
sterilizer (food)	286	stitcher shaper	413	stitcher hand (piano hammers)	649
stern frame smith (shipbuilding)	190	stitching cutter	384	stitcher-on (colendering)	419
stern plater	222	stitching machine minder	384	stitcher-on (finishing)	399
stewer	732	stitching mangle	414	stitcher-on (yarn)	549
stewer, assistant master	740	stitching shaver	429	stitch fudger	428
stewer, coal	732	stitching sorter	379	stitching machine operator	414
stewer, master	732	stitch net mender	889	stitch marker	419
stewer (not employed)	743	stiletto forger	190	stitch separator (boots)	429
stewer, superintendent	740	stilt attendant (celluloid, shale, hazing)	142	stitch wheeler	429
stewer foreman	740	stilt cleaner	149	stock and share broker	792
stewer's laborer	745	stilt dresser (coal tar)	149	stock and share jobber	792
steward, bar	737	stilt foreman (naphthalene)	142	stock arbitrator	789
steward, bedroom	737	stilt fire attendant	142	stock bleacher (bone, ivory, etc.)	619
steward, cabin	737	stilt house man	459	stock bleacher (brooms, brushes)	839
steward, captain	911	stiltman	142	stock breeder	792
steward, chief	737	stiltman, alcohol	142	stock broker	792
steward (club, messroom, etc.)	929	stiltman, ammonia	142	stock broker, outside	792
steward (coal mine)	949	stiltman, benzol	142	stock broker's manager	792
steward (dining car)	929	stiltman, bleach	142	stock carver (small arms)	435
steward, engineer's mess room	737	stiltman, carbolic acid	142	stock clerk	439
steward, estate	618	stiltman, glycerine	142	stock cutter	403
steward, farm	915	stiltman, oil	142	stocker (blast furnace)	278
steward, first saloon	917	stilt man, patent	454	stocker (gun-hand)	498
steward (hospital, hotel, etc.)	737	stilt man, pot	454	stocker, gun (hand)	498
steward, hotel (school)	910	stiltman, tar	142	stocker (gun-machine)	498
steward, house	910	stiltman (xyloite)	142	stocker, iron	278
steward, land	910	stiltroom maid	900	stocker (leather dressing)	314
steward, library	737	stilt room man (distillers)	459	stocker, pig	279
steward (lodging house)	912	stiltroom man (hotel, etc.)	900	stocker, pig iron	279
steward, mess room	737	stilt wicker	149	stocker, pistol	498
steward (metalliferous mine)	950	stilt worker	105	stocker, rifle	498
steward (other mines and quarries)	979	stitcher	523	stocker, shot gun	498
steward, pastry	737	stitcher (lithographer's)	523	stocker (steamship)	745
steward, ploughman	923	stitching brush maker	833	stocker (storekeeper)	840
steward (race-course)	894	stirrer man (sugar refining)	449	stocker (textile finishing)	334
steward, saloon	737	stirrup finisher	279	stocker, whip	838
steward, second saloon	737	stirrup forger	190	stocker (whips)	838
steward (service flats)	921	stirrup jagger	279	stocker, yarn	399
steward, shore	749	stirrup leather maker	342	stocker-up	139
steward (silk)	359	stitch cleaner (boots)	429	stock, Buck (hang clerk)	801
steward, spinning mill (silk)	354	stitcher, back	468	stock floor (gun)	485
steward, steam	737	stitcher, bag (leather)	345	stock filler (pig iron)	279
steward, superintendent	737	stitcher (bags, trunks)	345	stock finisher (gun)	498
steward, third class	737	stitcher, bag (sack)	417	stock fitter (boots)	414
steward, wine	906	stitcher, bag (warehouse)	419	stock fitter (metallu bedsteads)	210
steward, wood	916	stitcher, bale	949	stock foreman	708
steward (yacht)	737	stitcher (bookbinding)	532	stock foreman, carriage	708
stewardess, bar	737	stitcher (boots)	414	stock foundation maker	419
stewardess, bedroom	737	stitcher, boxing glove	348	stock girl	395
stewardess, cabin	737	stitcher, bridle	344	stock hand, copper	633
stewardess, chief	737	stitcher, canvas	419	stock hand, nailed	633
stewardess, club (girl)	911	stitcher (cardboard boxes)	559	stockinger (hand)	374
stewardess (club, messroom, etc.)	929	stitcher (celluloid)	619	stockinger (machine, frame)	375
stewardess, first saloon	737	stitcher, chain (hosiery)	419	stocking knitter	374
stewardess (lodging house)	912	stitcher, collar	344	stocking machine knitter	374
stewardess (on board ship)	737	stitcher, coat	406	stocking machinist (guns)	468
stewardess, second saloon	737	stitcher, edge	419	stocking machinist (hosiery)	374
stockier	393	stitcher, fair	419	stocking sorter	700
stockier man	389	stitcher, fire can	558	stock inspector	700
stick carver	485	stitcher, floss	419	stock jobber	792
stick (artificial leaves)	688	stitcher, football	348	stock jobber's manager	792
stick, bill	909	stitcher, front	406	stock-keeper, engineer's (ship)	737
stick, cloth	949	stitcher (gray cloth)	419		
stick, head (artificial leaves)	688	stitcher, hand (horses)	419		
stick (needles, pins)	278	stitcher, harness	344		
stick, pony	138	stitcher, hat leather	410		
stick, waterproof	608	stitcher, hose	619		
stick, waterproof garment	608	stitcher (hosiery)	419		
		stitcher (leather belt)	343		
		stitcher, leather (furniture)	504		

	Code Number.		Code Number.		Code Number.
stock-keeper, engine room (ship) ...	737	stone breaker, colour ...	118	stoner (sewing machines) ...	279
stock-keeper (farm) ...	022	stone breaker (stone mine or quarry) ...	072	stone roller maker ...	185
stock-keeper (ship) ...	737	stone breaker minder ...	056	stone rubber (mason's labourer) ...	579
stockkeeper (textile mills) ...	941	stone burner ...	171	stone rubber (acrythstone) ...	575
stockkeeper, top ...	941	stone carrier (stone works) ...	589	stone Sawyer ...	574
stock-keeper (warehouseman) ...	940	stone carver ...	575	stone shifter (sawery) ...	544
stock-keeper, wool ...	940	stone chaser ...	854	stone shifter (ship) ...	548
stockkeeper, yarn ...	941	stone chaser ...	575	stone slate maker ...	575
stock lock japper ...	241	stone contractor ...	041	stone splitter ...	633
stock lock key turner ...	200	stone cracker ...	581	stone spreader ...	581
stock lock maker ...	243	stone crusher, colour ...	118	stone squarer ...	575
stock locksmith ...	243	stone crusher (road making) ...	581	stone stower ...	047
stock machinist (gun) ...	488	stone crusher (stone mine or quarry) ...	672	stone tinner (ship) ...	548
stock maker ...	419	stone crusher attendant ...	056	stone tipper (coal mine) ...	049
stock maker, brush ...	436	stone cutter, burnishing ...	575	stone tipper (metal mine) ...	056
stock maker, gill ...	276	stone cutter (coal mine) ...	047	stone turner ...	575
stock maker (gun-hand) ...	488	stone cutter (contractor's) ...	575	stone waler ...	049
stock maker (gun-machine) ...	488	stone cutter, oriental ...	638	stone waler, dry ...	572
stock maker, nailed ...	633	stone cutter, precious ...	638	stoneware maker ...	165
stock maker (textile machinery) ...	290	stone cutter (slate mine or quarry) ...	073	stoneware maker, brown ...	072
stockman (farm) ...	022	stone cutter (stone mine or quarry) ...	072	stone weiger (stone works) ...	589
stockman (fletcher) ...	334	stone ditcher ...	572	stone wheeler (ironstone) ...	279
stockman, marsh ...	022	stone drafter ...	575	stone work contractor ...	041
stockman (pig iron) ...	279	stone drawer ...	069	stone works labourer ...	589
stockman (warehouseman) ...	940	stone dresser ...	575	stool maker ...	473
stock metal carrier ...	279	stone driver ...	047	stool maker, camp ...	488
stock metal man ...	279	stone drillman ...	047	stool maker, mason ...	473
stock presser ...	404	stone dust man ...	049	stool maker, plane ...	473
stock raiser ...	011	stone engraver ...	575	stooler ...	042
stock room assistant (line) ...	385	stone fencer ...	572	stop boy (rolling mill) ...	279
stock room assistant (warehouseman) ...	942	stone filer (ironworks) ...	279	stopper ...	054
stock room hand ...	942	stone filer (lime burning) ...	682	stopper, back ...	279
stock room man (screws) ...	940	stone filer (lime packing) ...	099	stopper, back hole ...	279
stockman ...	334	stone filer (metal mine) ...	099	stopper (cork areas) ...	089
stock trimmer ...	156	stone finisher, artificial ...	099	stopper, curb ...	510
stocktaker ...	789	stone finisher, composition ...	098	stopper (pottery) ...	510
stocktaker, har ...	789	stone fitter ...	575	stopper and mangle maker ...	125
stocktaker (iron and steel rolling) ...	789	stone getter (rock salt, barytes, etc.) ...	076	stopperer ...	138
stocktaker (puddling furnace) ...	789	stone grinder (stone mine or quarry) ...	072	stopper fitter ...	138
stocktaker, value's ...	940	stone grinder ...	575	stopper grinder ...	138
stock-taker, wool warehouse ...	939	stone hand ...	049	stopper maker, air-tight ...	488
stock-taker's clerk ...	939	stone handler ...	049	stopper maker (glass works—freckley) ...	103
stock tops ...	737	stone head driver ...	047	stopper maker (rubber works) ...	669
stock varnisher (gun) ...	399	stone header ...	047	stopper maker, screw (schmitz) ...	680
stockwright ...	210	stone headier ...	049	stopper maker (steel works) ...	103
stocker, assistant ...	951	stone headier ...	049	stopper maker (wood) ...	486
stocker (baths) ...	951	stone heater ...	572	stopper man (gas works) ...	692
stocker (blast furnace) ...	279	stone heater ...	572	stopper man (steel works) ...	279
stocker (boiler) ...	951	stone hewer ...	054	stopper-off ...	473
stocker, boiler ...	951	stone knapper ...	581	stopper packer ...	459
stocker (brickyard) ...	119	stone layer ...	049	stopper polisher (rubber works) ...	609
stocker (coke oven) ...	088	stone lime maker ...	089	stopper ringer ...	459
stocker (drifter) ...	736	stone lime miller ...	089	stopper (scales) ...	590
stocker (engine) ...	951	stone machine man ...	575	stopper setter ...	279
stocker, engine (locomotive) ...	701	stone machinist ...	575	stopper sorter ...	459
stocker, engine (stationary) ...	951	stone maker, artificial ...	098	stopperer ...	419
stocker, furnace (boiler) ...	931	stone maker, hawking ...	098	stopping blinder ...	397
stocker, furnace (metal works) ...	279	stone maker, composition ...	098	storage battery former ...	397
stocker, furnace (pottery) ...	109	stone maker, curing ...	575	storage battery maker ...	392
stocker (gas works) ...	693	stone maker, pattern ...	098	storage battery paster ...	392
stocker, gas (gas works) ...	693	stone mangle maker ...	098	storage tank man ...	159
stocker, gas (producer gas) ...	853	stone man (coal mining) ...	572	store boy ...	942
stocker (general ironfoundry) ...	279	stone man (grain milling) ...	432	store hand (bakery) ...	942
stocker (glass works) ...	122	stone man, master ...	941	store holder ...	942
stocker, kiln (masonry) ...	143	stone man, miller's ...	575	storehouse boy ...	942
stocker, leading ...	951	stone man (stone dressing) ...	575	storekeeper ...	941
stocker (locomotive) ...	701	stone man's labourer ...	047	storekeeper, assistant (Post Office) ...	941
stocker (metal works) ...	279	stone marker ...	575	storekeeper, bar iron ...	941
stocker, motor ...	721	stone miller (masonry) ...	149	storekeeper, bar (ship) ...	737
stocker, motor steam lorry ...	721	stone miller (pottery) ...	575	storekeeper, blue print ...	941
stocker, motor wagon ...	721	stone mixer (coal mine) ...	047	storekeeper, bolts ...	941
stocker (on board ship) ...	736	stone mixer (quarry man) ...	072	storekeeper, chief (Post Office) ...	941
stocker, shift foreman ...	951	stone napper ...	581	storekeeper, chief (railway) ...	700
stocker (shipbuilding) ...	279	stone packer ...	044	storekeeper, deck ...	737
stocker, underground ...	047	stone packer ...	044	storekeeper, drag ...	941
stocker (underground furnace) ...	047	stone peckin and mortar maker ...	575	storekeeper, magazine ...	941
stocker, engineer ...	244	stone picker (agricultural) ...	024	storekeeper, negative ...	941
stocker, engine (laundry) ...	950	stone picker (coal mine) ...	049	storekeeper, nut and bolt ...	940
stocker for annealing ovens (rolling stock) ...	279	stone picker (stone cutter) ...	575	storekeeper, pattern ...	941
stocker's assistant ...	941	stone planer ...	575	storekeeper, plate (accumulators) ...	941
stone and fence waler ...	572	stone planer ...	575	storekeeper (Post Office) ...	941
stone and flag dresser ...	579	stone polisher ...	575	store-keeper (ship) ...	737
stone and flag pavior ...	579	stone polisher, lithographic ...	575	storekeeper, standing frame ...	941
stone brewer ...	072	stone porter ...	044	storekeeper, tool ...	941
stone blaster ...	047	stone putter ...	044	storekeeper, victualling ...	941
stone blower ...	047	stone redder ...	044	storekeeper, victualling (ship) ...	737
stone bore ...	047	stoner, blue (bricks and clacks) ...	279	storekeeper's assistant ...	942
stone bottle maker ...	105	stoner (fruit) ...	449	storeman ...	941
stone breaker (alkali) ...	149	stoner, glass ...	138	storeman (distillery) ...	941
stone breaker (building) ...	581	stoner (leather) ...	338	storeman, flax ...	941
stone breaker (cement) ...	699	stoner, resin ...	449	storeman, flax and yarn ...	941

	Code Number.		Code Number.		Code Number.
storeman (Post Office) ...	941	stover, tobacco ...	468	strainer, picture frame ...	485
storeman, skate (runk) ...	899	stover, warp ...	388	strainer (rubber) ...	609
storeman, wool ...	399	stover, warp yarn ...	380	strainer (textile printing) ...	399
store minder ...	941	stover, white pine ...	388	strainerman ...	519
store porter ...	759	stover, wocles sulphur ...	386	strainer washer ... (waterworks)	639
storer ...	941	stover, yarn (brimstone) ...	386	straining boy ...	539
store room man ...	941	stover, yarn (cotton yarn) ...	386	strander (electric cables) ...	519
stores assistant ...	942	store setter (bricklayer) ...	565	strander (rope) ...	373
stores attendant ...	942	store setter (white lead) ...	149	strander, steel rope ...	269
stores attendant, river ...	942	store tester ...	278	strander, wire (electric cables) ...	319
stores clerk ...	939	store worker ...	439	strander, wire (wire rope) ...	269
stores clerk (gasworks) ...	939	storing machine leader ...	448	strand former ...	373
stores inspector ...	700	stowboardman ...	047	strap maker, carriage ...	344
stores issuer ...	941	stower (brewery) ...	459	strap maker, fork (garden ...)	190
stores issuer (railway) ...	941	stower, cake ...	159	strap maker (leather) ...	348
stores labourer ...	942	stower (cargo) ...	743	strap man ...	343
stores labourer, ale ...	459	stower (coal mine) ...	047	strap mender ...	343
stores labourer, cold ...	942	stower (gran milling) ...	942	strapper (bags, trunks) ...	345
storeman ...	941	stower, iron ...	342	strapper (coal mine) ...	047
storeman, bonding ...	940	stower, jute ...	342	strapper (corsets) ...	406
store manager, cold air ...	940	stower, leading ...	742	strapper (dian) ...	034
store manager (shipping ...)	739	stower (metal mine) ...	054	strapper (grey room) ...	196
store porter ...	917	stower, net ...	090	strapper (grey room) ...	222
stores superintendent, chief ...	700	stower (railway) ...	706	strapper (shippard) ...	343
stores superintendent (rail- ...)	700	stower, ship ...	743	strapper (strawways) ...	343
stores superintendent (trans- ...)	700	stower, stone ...	047	strap pincer (machine belts)	343
stores superintendent (trans- ...)	714	straightener (aeroplane slays) ...	278	strap roller ...	970
stores supervisor ...	731	straightener, angle iron ...	190	straw baw spinner ...	619
store attendant (japaning ...)	241	straightener, axle ...	190	straw berry grower ...	034
store attendant, starch ...	446	straightener (axles, bars, iron- ...)	190	straw binder ...	034
store back maker ...	102	straightener, bar (rolling mill) ...	190	straw board box maker ...	554
store builder ...	465	straightener, bobbin and car- ...)	190	straw board liner ...	532
store cleaner (blast furnace) ...	279	straightener, bar (rolling mill) ...	190	straw boiler ...	516
store cleaner (gas works) ...	699	straightener, bar (rolling mill) ...	190	straw boilerman ...	516
store finisher ...	398	straightener, carriage ...	210	straw boy (pottery) ...	948
store fireman (blast furnace) ...	171	straightener, cold ...	279	straw cutter ...	024
store fire (blast furnace) ...	171	straightener, comb (textile ...)	278	straw envelope maker ...	439
store fire (pottery) ...	119	straightener, comb (textile ...)	278	strawer (glass) ...	944
store filter, gas ...	225	straightener, drill ...	190	straw hat cleaner ...	929
store filter (gas store) ...	225	straightener (envelope) ...	558	straw hat polisher ...	410
store filter (grate, range) ...	378	straightener (envelope) ...	558	straw milliner ...	408
store fittings inspector (gas ...)	682	straightener (envelope) ...	558	straw pad maker ...	949
store fitter ...	235	straightener (flax) ...	322	straw pick brusher (straw ...)	429
store fitter (gas store) ...	235	straightener, frame shop ...	190	straw plant buncher ...	429
store fitter (grate, range) ...	378	straightener (general engineer- ...)	278	straw plant cleaner ...	429
store fittings inspector (gas ...)	682	straightener, guide rolling ...	278	straw plant collector ...	770
store fitter ...	235	straightener, hammer (needles) ...	278	straw press attendant ...	621
store foreman ...	331	straightener, hard ...	278	straw press maker (for cores) ...	638
store hand (artificial silk) ...	149	straightener, hot ...	190	straw rope spinner ...	024
store hand (brattice cloth) ...	413	straightener, iron ...	190	straw trimmer ...	024
store hand (chemicals) ...	639	straightener (iron and steel ...)	279	straw worker (basket) ...	472
store hand, drying ...	338	straightener (iron and steel ...)	279	straw worker (largest) ...	639
store hand (leather) ...	338	straightener, iron plate ...	278	strawer, tiffin ...	056
store maintenance fitter ...	335	straightener, lace machine ...	210	strawer, woffram ...	056
storeman (alkali) ...	149	straightener (leather) ...	210	street hawk ...	777
storeman (artificial silk) ...	149	straightener (leather) ...	210	street labourer ...	381
storeman (beacon smoking) ...	457	straightener (leather) ...	210	street light attendant ...	589
storeman (blast furnace) ...	171	straightener, needle ...	278	street light cleaner ...	698
storeman (cordite) ...	398	straightener, plate ...	278	street lighting engineer (elec- ...)	691
storeman (cotton cloth) ...	398	straightener, rail ...	278	street lighting supply ...	691
storeman (cotton yarn) ...	398	straightener, rod mill ...	278	street lighting inspector (gas ...)	692
store man, first call (gas ...)	692	straightener, saw ...	278	street ...	579
storeman (gunpowder) ...	148	straightener, saw plate ...	278	street mason's labourer ...	970
store man (iron foundry) ...	163	straightener (saw) ...	278	street orderly boy ...	579
store man (japaning and ...)	241	straightener, ship plate ...	210	street pedlar ...	777
storeman (japan and colours) ...	149	straightener, sinker ...	278	street photographer ...	527
storeman, red lead ...	143	straightener, soft (needles) ...	278	street sweeper ...	970
storeman (rubber) ...	609	straightener, spindle ...	278	strengthen, plate ...	278
storeman, white lead ...	149	straightener (steel plates) ...	278	strengthen (steel plates) ...	278
store minder, assistant ...	279	straightener (steel rails) ...	278	stretch (belt) ...	324
store minder (blast furnace) ...	171	straightener (steel making) ...	484	stretch, card flat ...	225
store ornament maker ...	558	straightener (store casing) ...	279	stretch, cloth ...	384
store polish maker ...	199	straightener (textile finishing) ...	354	stretch, curtain ...	919
storer, hooch ...	437	straightener (tin boxes) ...	278	stretch (cycle chains) ...	278
storer, black ...	241	straightener (tubes) ...	278	stretch, flat ...	225
storer (brimstone) ...	396	straightener, twist drill ...	190	stretch, glove ...	929
storer, colour ...	241	straightener (whalebone) ...	619	stretch (hats) ...	409
storer (cordite) ...	149	straightener, wire (aeroplane ...)	278	stretch (hayband making) ...	278
storer (cotton cloth) ...	398	straightener, wire (pins) ...	278	stretch, hydraulic plate ...)	222
storer (cotton yarn) ...	398	straightener, wire (road ...)	278	stretch, machine ...	222
storer, canvas (lin's) ...	398	straightener (wire works) ...	278	stretch, hydro plate ...	190
storer, fusian ...	398	straightener and antenna ...	138	stretch, iron ...	222
storer (gunpowder) ...	148	straightener at machine ...)	279	stretch (leather) ...	336
storer (hair) ...	398	straightener bench cleaner ...	279	stretch, roller ...	278
storer, ham ...	417	straightener feeder, rail ...	279	stretch, shaft ...	278
storer (hats) ...	428	straightener feeder (rolling ...)	279	stretch (sheet) ...	278
storer, hosiery ...	396	straightener (mill) ...	279	stretch, sheet iron (textile ...)	294
storer (leather) ...	398	straightener's helper ...	279	stretch, silk ...	398
storer, leather (drying) ...	356	straightening hand ...	639	stretch, spindle ...	278
storer, leather (enamelling) ...	356	straight grider ...	237	stretch (spindles, tubes) ...	278
storer (metal enamelling) ...	241	straight knife cutter ...	342	stretch (textile finishing) ...	384
storer (rubber) ...	609	strainer, artist's frame ...	485	stretch, tip ...	409
storer (soap) ...	159	strainer (canvas, do.) ...	485	stretch, tube ...	278
storer, sulphur ...	398	strainer, colour (textile print ...)	399	stretch, warp ...	369
storer (textile finishing) ...	394	strainer (leather) ...	338	stretch, yarn (gnapping) ...	398
storer (tobacco) ...	468	strainer, paste (liqueur) ...	435		

	Code Number.		Code Number.		Code Number.
stretch, yarn (silk) ...	396	strip inker ...	428	stud screw, frost ...	200
stretch, resistant ...	384	strip marker ...	429	stud turner ...	200
stretch-down (feathers) ...	638	strip mill labourer ...	279	studifier (steel forging) ...	279
stretch flattener ...	279	stripper, all sorts ...	448	stuffer, animal ...	389
stretching machine ...	399	stripper (artificial silk) ...	149	stuffer, hard ...	389
stretching machine feeder ...	394	stripper, back ...	142	stuffer, cushion (billiard)	608
stretching machine minder ...	384	stripper, cable ...	448	stuffer, doll ...	608
stroeman ...	042	stripper, barrel ...	200	stuffer, drum ...	334
streetman, collar ...	042	stripper, bine ...	948	stuffer (dye's) ...	398
strewer, stone ...	531	stripper, bobbin ...	398	stuffer (fur) ...	332
striker (flax) ...	362	stripper, bolt ...	279	stuffer, hand ...	334
striker (jute) ...	398	stripper (bolt and rivet)	279	stuffer (mattresses, &c) ...	502
striker, jute ...	398	stripper, braka ...	279	stuffer, nails ...	279
striking drum hammer ...	190	stripper, cable ...	448	stuffer (suit tags) ...	698
striker, anchor smith's ...	190	stripper (candles) ...	159	stuffer (tubes) ...	279
striker, angle iron smith's ...	190	stripper, card ...	364	stuffer (upholstery) ...	564
striker, angle smith's ...	190	stripper (cardboard boxes) ...	538	stuff-over frame maker	473
striker, anvil ...	190	stripper (celluloid) ...	619	stuff-over hand ...	473
striker, anvil smith's ...	190	stripper, cloth ...	388	stuff-over man, couch ...	504
striker, sugar ...	190	stripper (coal mine) ...	842	stuff presser ...	384
striker, back maker's (peysha) ...	190	stripper, cop (carpeta) ...	399	stumper (hats) ...	409
striker, belly ...	338	stripper (copper) ...	219	stumper (stone mass or	472
striker, blacksmith's ...	190	stripper, cork ...	438	stumper (quarry) ...	379
striker, blade ...	190	stripper, corset ...	404	stumper (textiles) ...	229
striker, butt ...	338	stripper (corsets) ...	404	stumper (tube winding) ...	279
striker, catch ...	043	stripper, dia ...	190	stamp extruder ...	029
striker, chain ...	190	stripper, drum (carpet yarns)	338	stamp moulder ...	180
striker, cloth ...	364	stripper, drum (textile)	383	stamp roller ...	671
striker, coach smith's ...	190	stripper, printing ...	278	stamp-ganger (locks) ...	577
striker, colour ...	152	stripper, ring ...	278	stamp-ganger (railway) ...	577
striker, edge tool ...	190	stripper (saw) ...	278	stamp-inspector ...	300
striker, edge tool forger's ...	190	stripper, flat ...	364	stamp-inspector, signal and	700
striker, flanging smith's ...	190	stripper, frame ...	159	stamp-inspector, signal and	308
striker, force ...	190	stripper, gold ...	280	stamp-inspector, signal and	700
striker, fork (agricultural) ...	183	stripper (gold, electrolytic)	143	stamp-inspector, signal and	308
striker, general smith's ...	190	stripper (gold, electroplating)	143	stamp-inspector, signal and	308
striker (hammerman) ...	190	stripper (hosiery) ...	398	stamp-inspector, signal and	308
striker, hand forge ...	190	stripper, ingot ...	279	stamp-inspector, signal and	308
striker, hand forge smith's ...	190	stripper, ironwork ...	279	stamp-inspector, signal and	308
striker, iron wheel ...	190	stripper, lead ...	448	stamp-inspector, signal and	308
striker (leather) ...	338	stripper (liquorice) ...	448	stamp-inspector, signal and	308
striker, metal ...	338	stripper, liquorice ...	448	stamp-inspector, signal and	308
striker, oval ...	338	stripper (packing) ...	519	stamp-inspector, signal and	308
striker, printer's ...	530	stripper (paper mill) ...	519	stamp-inspector, signal and	308
striker, rock salt ...	076	stripper (printer's rollers) ...	689	stamp-inspector, signal and	308
striker, shackle ...	190	stripper (process engraving)	548	stamp-inspector, signal and	308
striker, ship blacksmith's ...	190	stripper (rubber) ...	608	stamp-inspector, signal and	308
striker, shipsmith's ...	190	stripper (saw crushing) ...	158	stamp-inspector, signal and	308
striker (slate mine or quarry)	073	stripper, silver ...	158	stamp-inspector, signal and	308
striker, smith's ...	190	stripper, soap frame ...	279	stamp-inspector, signal and	308
striker, wedge spring smith's	190	stripper, spring ...	279	stamp-inspector, signal and	308
striker hand ...	530	stripper (steel manufacture) ...	279	stamp-inspector, signal and	308
striker-out (flax) ...	398	stripper, stock ...	158	stamp-inspector, signal and	308
striker-out (leather) ...	338	stripper (stone mine or	672	stamp-inspector, signal and	308
striker-out (flax) ...	398	stripper (quarry) ...	672	stamp-inspector, signal and	308
striker-out (jute) ...	398	stripper, tat ...	609	stamp-inspector, signal and	308
striking board man ...	279	stripper (textile carding) ...	364	stamp-inspector, signal and	308
striking hand ...	437	stripper (textile mill) ...	364	stamp-inspector, signal and	308
string coverer ...	688	stripper (textile mill) ...	364	stamp-inspector, signal and	308
string coverer, musical ...	688	stripper (tobacco) ...	448	stamp-inspector, signal and	308
string coverer (piano) ...	688	stripper, tube (carpeta) ...	399	stamp-inspector, signal and	308
stringer (norsplane fuselage) ...	419	stripper, white bed ...	149	stamp-inspector, signal and	308
stringer, badminton racket ...	688	stripper (wire drawing) ...	268	stamp-inspector, signal and	308
stringer (candle) ...	152	stripper, wool ...	364	stamp-inspector, signal and	308
stringer, feather ...	632	stripper, yarn ...	364	stamp-inspector, signal and	308
stringer (hole) ...	429	stripper-and-grinder ...	364	stamp-inspector, signal and	308
stringer, mule ...	398	stripper ...	364	stamp-inspector, signal and	308
stringer (packer) ...	348	stripper, wool ...	364	stamp-inspector, signal and	308
stringer, paper bag ...	538	strip roller ...	178	stamp-inspector, signal and	308
stringer (paper bag) ...	538	strip roller, tapered ...	178	stamp-inspector, signal and	308
stringer, pearl ...	638	strip steel granger (pens)	276	stamp-inspector, signal and	308
stringer (piano) ...	648	strip steel roller ...	178	stamp-inspector, signal and	308
stringer, plant dryer ...	429	striker ...	530	stamp-inspector, signal and	308
stringer (printer's) ...	548	striker, room door maker ...	676	stamp-inspector, signal and	308
stringer, racket ...	688	striker, room door maker ...	676	stamp-inspector, signal and	308
stringer, ring ...	348	striker, room door maker ...	676	stamp-inspector, signal and	308
stringer (spinning mill) ...	398	striker, room door maker ...	676	stamp-inspector, signal and	308
stringer, squash racket ...	688	striker, room door maker ...	676	stamp-inspector, signal and	308
stringer, tennis racket ...	688	striker, room door maker ...	676	stamp-inspector, signal and	308
Stringing type machine operator	523	striker, room door maker ...	676	stamp-inspector, signal and	308
string maker, covered (piano)	638	striker, room door maker ...	676	stamp-inspector, signal and	308
string maker (gut) ...	638	striker, room door maker ...	676	stamp-inspector, signal and	308
string maker, gut ...	638	striker, room door maker ...	676	stamp-inspector, signal and	308
string maker, musical ...	638	striker, room door maker ...	676	stamp-inspector, signal and	308
string maker, piano ...	638	striker, room door maker ...	676	stamp-inspector, signal and	308
string maker, racket ...	638	striker, room door maker ...	676	stamp-inspector, signal and	308
string maker, surgical ...	638	striker, room door maker ...	676	stamp-inspector, signal and	308
string maker (twine) ...	365	striker, room door maker ...	676	stamp-inspector, signal and	308
string, maker (wire, for	688	striker, room door maker ...	676	stamp-inspector, signal and	308
musical instruments) ...	688	striker, room door maker ...	676	stamp-inspector, signal and	308
strip burnisher ...	429	striker, room door maker ...	676	stamp-inspector, signal and	308
strip caster (brass) ...	184	striker, room door maker ...	676	stamp-inspector, signal and	308
strip caster, brass ...	184	striker, room door maker ...	676	stamp-inspector, signal and	308
strip caster (precious metals)	290	striker, room door maker ...	676	stamp-inspector, signal and	308
striper (perambulators, &c.)	593	striker, room door maker ...	676	stamp-inspector, signal and	308
stripping hand (holery	407	striker, room door maker ...	676	stamp-inspector, signal and	308
embroidery) ...	407	striker, room door maker ...	676	stamp-inspector, signal and	308
stripping hand (holery	407	striker, room door maker ...	676	stamp-inspector, signal and	308
machinery) ...	419	striker, room door maker ...	676	stamp-inspector, signal and	308

	Code Number		Code Number		Code Number
sulphuric acid hills man	143	superintendent, loco.	700	superintendent of mixture	
sulphuric acid man	143	superintendent, locomotive	700	(gasket fuel)	091
sulphuric acid man, de-		superintendent, locomotive	700	superintendent of pitstage	731
arsonating	143	running	700	superintendent of rescue	
sulphuric acid man, rectified	143	superintendent, loco, running	700	station	041
sulphuric acid man, un-	143	superintendent, mains (elec-		superintendent of shipping	
sulphuric acid purifier	143	tricity supply)	690	supplies	602
sulphuric acid refiner	143	superintendent, manious	821	superintendent of street pipe	
sulphuric acid towerman	143	superintendent, marine (dock)	731	syring (waterworks)	561
sulphuric man (powder mill)	143	superintendent, marine (ship)	739	superintendent of turncocks	602
sulphur refiner	143	ping company)	739	(waterworks)	602
sulphur stover	396	superintendent, marine engi-		superintendent of waste water	
sulphur stover, woollen	396	neering	731	inspectors (waterworks)	602
sulphur slipper	396	superintendent, mess (army)	919	superintendent of way and	
super	642	superintendent, meter (elec-		works	700
superannuated	054	tricity)	690	superintendent of works	700
sun dial maker	322	superintendent, mill (galvan-		superintendent of the line	700
sun drierman	770	ized sheet, tin plate)	164-169	superintendent storehouse	732
sun drierman, druggist's	770	superintendent, mineral transp.	700	superintendent steward	739
sun drierman, hairdresser's	770	superintendent, night	700	superintending engineer,	
sun drierman, tobaccoist's	770	superintendent (conduits)	710	mariner (L.P.O.)	300
sunshade maker	416	superintendent, outside	739	superintending engineer	
sunshade trimmer	416	superintendent, outside ma-		(L.P.O.)	300
super	885	chiney	700	superintending engineer	
super calendarman	518	superintendent, parcels	714	(waterworks)	690
supercharger	749	superintendent, passenger	700	superior foreman	700
superintendent (patent fuel)	699	superintendent, permanent		supervisor, assistant (Post	
superintendent, substation	779	way (tramways)	714	Office telegraph)	751
superintendent, advertising	779	superintendent, police	700	supervisor, assistant (Post	
superintendent, air	750	superintendent, provender	739	Office telephones)	751
superintendent, ambulance	041	superintendent (public wash-		supervisor (blind home-	
superintendent, assistant en-		house)	619	workmen)	929
gineer (aviation)	750	superintendent, punch shop	714	supervisor (clothing trades)	401
superintendent, assistant traffic		superintendent (railway)	700	supervisor (dining centres)	929
(aviation)	750	superintendent, repairs depôt		supervisor, loom	164-169
superintendent, bank	041	(tramways)	714	supervisor, marine (dock)	751
superintendent (banks)	041	superintendent, rescue station	041	supervisor, night telephone	751
superintendent, boiler house	691	superintendent, resident elec-		supervisor (Post Office)	751
(electricity)	691	trical	690	supervisor, stores	700
superintendent, brake (trans-		superintendent, rolling stock	714	supervisor, stores	751
ways)	714	superintendent, running shed	700	supervisor, stores	911
superintendent, cargo	731	superintendent, sack	700	supporter	316
superintendent, cartage assist-		superintendent, sales (elec-		surface agent	048
ant (railway)	713	tricity supply)	690	surface contact equipment	
superintendent, cartage (rail-		superintendent, shed	700	repairer	316
way)	713	superintendent, sheet	700	surface fireman	951
superintendent (cash, ticket		superintendent, signal	700	surface foreman (coal mine)	041
and punch department)	714	superintendent, signal and		surface foreman (metal mine)	051
superintendent, cattle	700	telegraph	700	surface hand	066
superintendent, chief stores	700	superintendent, signalling	780	surface haulage	049
superintendent, claims (trans-		superintendent, station (elec-		surface labourer (coal mine)	049
ways, omnibus)	714	tricity supply)	690	surface labourer (highway)	051
superintendent (colliery)	040	superintendent, station (rail-		surface labourer (metal mine)	051
superintendent, day	700	way)	780	surface manager	040
superintendent, depôt	714	superintendent, steamship	739	surface man (coal mine)	048
superintendent, district depôt		superintendent, stores (rail-		surfaceman, foreman (rail-	
superintendent, district (gas		way)	700	way)	561
works)	692	superintendent, stores (trans-		surfaceman, foreman (roads)	561
superintendent, district goods	700	way)	714	surface man (highway)	581
superintendent, district (in-		superintendent, submarine		surface man, leading (rail-	
surance)	793	(cable ship)	300	way)	577
superintendent, district loco-		superintendent, telegraph	700	surface rider	577
motive	700	superintendent, test room	368	surface table man	210
superintendent, district (rail-		superintendent, traffic (avia-		surgery boy	929
way)	714	tion)	750	surgery girl	929
superintendent, district traffic		superintendent, traffic (coal		surgical	929
superintendent, district		mine)	041	surgical	929
(waterworks)	692	superintendent, traffic de-		surgical	929
superintendent, divisional	700	velopment	714	surgical	929
superintendent, divisional		superintendent, traffic (rail-		surgical	929
locomotive	700	way)	700	surgical	929
superintendent, divisional		superintendent, traffic (trans-		surgical	929
traffic)	714	ways or omnibus)	710	surgical	929
superintendent, dock	731	superintendent, tramways	714	surgical	929
superintendent, drainage	010	superintendent, turbo home-		surgical	929
superintendent, dredging	731	tricity)	691	surgical	929
superintendent, electrical		superintendent, velding	739	surgical	929
superintendent, and telegraph	700	superintendent, waste (water-		surgical	929
superintendent, engineer		works)	692	surgical	929
(aviation)	750	superintendent (waterworks)	690	surgical	929
superintendent, fish market	700	superintendent, wire rope	041	surgical	929
superintendent (funeral)	925	superintendent, works (elec-		surgical	929
superintendent, general	700	tricity)	690	surgical	929
superintendent, goods	700	superintendent, works (trans-		surgical	929
superintendent, goods shed	700	ways)	714	surgical	929
superintendent, goods yard	700	superintendent, captain	739	surgical	929
superintendent, grain	943	superintendent, cashier	739	surgical	929
superintendent, harbour	731	superintendent, engineer		surgical	929
superintendent, horse (seal)	781	(dock)	731	surgical	929
superintendent, horse (con-		superintendent, engineer		surgical	929
tractor's)	714	(shipping company)	739	surgical	929
superintendent (hospital, &c.)	913	superintendent of agents	783	surgical	929
superintendent (hotel)	912	superintendent of bill dis-		surgical	929
superintendent, installation		tributors	961	surgical	929
(electricity supply)	692	superintendent of district		surgical	929
superintendent, lighting (gas		(waterworks)	692	surgical	929
works)	692	superintendent of flag yard	561	surgical	929
		superintendent of granulators		surgical	929
		(sugar refining)	448	surgical	929

Ta-To

	Code Number		Code Number		Code Number
taker-in (glass works)	139	tank driver, oil (motor)	720	tapper, stay hole	290
taker-in, piece (textile finish- ing, etc.)	399	tanker (cables)	319	tapper, wheel	709
taker-in, piece (textile wear- ing)	940	tanker (coal mine)	647	tapper, wheel bnb	200
taker-in (textile mill)	399	tanker (galvanizing)	234	tapper (zinc extraction) ..	270
taker-in (textile warehouse) ..	359	tank man (cables)	319	tapper and balter, wheel ..	286
taker-in (warp)	368	tank excavator (copper etc.)	279	tapper-out (iron and steel manufacture)	276
taker-in, warp	368	tank filter	278	tapper-up	414
taker-off (bebbin)	399	tank hand	250	tapping machine attendant ..	280
taker-off (boots)	414	tank maker (iron and steel) ..	222	tapping machine hand	290
taker-off (bricks)	119	tank maker, slate	576	tapping machinist	280
taker-off (coal mine)	363	tank maker (rope)	474	tapping man (lead extrac- tion)	278
taker-off (compound cake)	159	tank man, bag (sugar)	449	tapping room man, nickel ..	278
taker-off, dipper's (bricks)	119	tankman (cables)	319	taster	915
taker-off (galvanised sheet) ..	279	tank man (compound cake) ..	159	taster (furnace cylinder)	279
taker-off (glass)	139	tankman (copper, wet process)	143	tar and liquor plant attendant	591
taker-off (laundry)	918	tankman (fish curing)	437	(gas works)	699
taker-off, lithographic machine	530	tank man (gas works)	699	tar boiler (road spraying) ..	581
taker-off, machine (printer's)	530	tankman (margarine)	449	tar boiling man	319
taker-off (pottery)	119	tank man, storage	159	tar distiller	449
taker-off (printer's, etc.)	530	tank man (sugar refining) ..	449	tar man (wood)	399
taker-off (sacks)	429	tank man (tar distilling) ..	149	tar picker (cotton room) ..	399
taker-off (steel manufacture) ..	279	tank manager	121	tar extractor	581
taker-off (sugar confectionery)	449	tank minder (unbanned fibre)	559	target maker	688
taker-off (tinsplate)	279	tank tester	278	target maker (floating) ..	474
taker-off (wire rod mill)	279	tanner (oil hides)	333	target maker, floating	474
taker-off, wool (combing)	363	tanner (leather, etc.)	333	tar layer	579
taker-off, wool (sorting)	363	tanner (ropes, etc.)	333	tarmin worker	099
taker-off (wool weaving)	399	tanner's labourer	333	tar main man	099
taker-out (bricks)	363	tannin extract maker	143	tar man	581
taker-out, bar	363	tan worker	333	tar mixer (contractor's) ..	279
taker-out (galvanised sheet) ..	279	tan worker (labourer)	333	tar mixer (slag and slag wool)	579
taker-out (glass works)	139	tanyard foreman	331	tar painter	599
taker-up	950	tanyard labourer	331	tar parlor	579
Talbot furnacesman (first, second, third hand)	279	tanyard worker	331	tar parlor's labourer	581
Talbot furnace worker	279	tape and lead maker	195	tar plant attendant	143
talo worker	399	tape attendant	709	tar recovery attendant	143
tallier (check clerk)	939	tape blocker	949	(mineral oil refining)	143
tallow (wire works)	279	tape boy (surveying)	970	tar refiller	143
tallow chandler	770	tape coiler (safety and mining tapes)	149	tared cascadian maker	099
tallow cutter	159	tape labourer	149	tar refiner	142
tallow meller	159	tape layer	943	tarrer (textile mill)	399
tallow refiner	159	tape maker, cigarette	423	tarrer (wooden buildings, etc.)	599
tallow sampler	159	tape maker, telegraph	559	tarring hand	899
tally boy	049	tape measure maker (steel) ..	322	tar sprayer	381
tally clerk	049	tape measure marker (steel) ..	322	tar spray pump	559
tally	499	tape measure marker (textile)	399	tar still fireman	143
tally lad	049	tape putter-on	399	tar stillman	143
tally maker	499	taper (boots)	319	tar tower attendant (gas works)	699
tallyman, breeze (gas works)	599	taper (cables)	304	tar works labourer	149
tallyman (carriage)	749	taper, coil	304	tassel hand	419
tallyman (cement)	749	taper (curtains, caps)	419	tassel hand	419
tally man (check clerk)	939	taper, dry	363	tassel mould coverer	423
tallyman, coal (gas works)	599	taper (hats)	410	tassel mould maker	499
tallyman, coke (gas works)	599	taper (made-up textiles) ..	949	tassel weaver	378
tally man (colliery)	049	taper, outer	319	taster, ale	449
tallyman (credit draper)	770	taper (piece goods)	943	taster (margarine)	449
tallyman, ship's deck	749	taper (warp)	363	taster (sugar)	789
tally man (limber)	499	taper (wood spinning)	294	taster (waste)	970
tally man (yarn)	399	tapered packing drawer	190	tasting maker (hand)	377
tally slater	570	tapered strip roller	173	tasting maker (machine) ..	376
tally woman	939	tapers, coil	304	tasting worker (hand)	377
tambourer (embroidery)	407	taperer (mahal)	499	tasting worker (machine) ..	376
tambourer (gloves)	411	taperer (wood)	290	tavern keeper	911
tambourer (packing)	949	taper girl (wax matches) ..	499	tavern keeper, coffee	338
tambourer (textile goods)	648	tapering machine attendant ..	159	taxi cab driver	720
tambourina maker	407	taper maker (cordless)	459	taxidermist	989
tambourist	407	taper maker, wax	159	taxidermist	322
tambour lace maker	377	taper's finisher	369	taximeter driver	322
tambour machinist	407	taper's labourer	399	taximeter maker	322
tambour maker	377	taper-up	949	taxi-owner driver	720
tambour worker (embroidry)	407	tape sewer	399	tea blender	448
tambour worker (lace)	377	tape sewar-on	399	tea canister maker	264
tambour worker (lace finish- ing)	419	tape sizer	369	tea checker	942
tamper (artificial stone)	099	tape spinner (musing etc.)	369	tea chest cooper	479
tamper (goffed blades)	190	tapestry printer	363	tea chest cooper	479
tamper (razors)	232	tapestry printer (block print- ing)	382	tea cooper	479
tamper, saw	279	tape winder (insulating tape)	304	tea gardens proprietor	911
tamper (saw)	279	taping machine operator	414	tea gown hand	405
tam-bone man (dollar leather)	333	taping machine operator	414	tea lead cader	186
tanhouse workman	333	(boots)	414	tea lead collar	279
tank attendant, bleaching	449	taping machinist	260	tea lead roller	279
tank attendant, cable	319	tapper, button	414	tea lead sorter	178
tank attendant, clay	099	tapper (boots)	414	tea lead worker	900
tank attendant, liquor (sugar refining)	448	tapper, centre (rolling stock)	278	team driver	713
tank attendant (sugar re- fining)	448	tapper (foundry)	278	teamer (carman)	719
tank attendant, washing	449	tapper, hnb	200	teamer, coal	744
(margarine)	449	tapper (internal threads) ..	200	tea mixer	448
tank cleaner (floor cloth)	539	tapper (iron and steel manu- facture)	276	team owner	713
tank cleaner, ship's	749	tapper, rail	300	teamman	719
tank cleaner (sugar refining)	449	tapper (railway)	789	teamster (carman)	023
tank driver, oil (horse)	719	tapper (rolling mill)	278	teamster (stone mine or quarry)	072
		tapper, seat (boots)	423	tea packer	949
		tapper, stay	200		

Code Number.		Code Number.		Code Number.	
tea pot outlet-out	254	telephone instrument assem-	309	tenter, hack (foundry	198
teapot maker	165	bier	309	laborer)	198
tear boy	399	telephone instrument fitter	309	tenter, hack (paper making)	519
teaser, shoddy	362	telephone instrument maker	309	tenter, hack (paper staining)	549
teaser (textile printing)	369	telephone instrument wire-	309	tenter, hack (textile printing)	999
tea sampler	739	telephone labourer (G.P.O.)	319	tenter, hackweaver	913
tensel (tenale) clipper (textile		telephone lad	354	tenter, looting machine	384
mill)	398	telephone lineman (railway)	311	tenter, belt	047
tensel (tenale) setter	398	telephone man	706	tenter, big	363
tenser (blast furnace)	279	telephone mechanic	310	tenter, big hack	363
tenser, cotton	362	telephone operator, box office	389	tenter, big (carding)	363
tenser, hair (carding)	363	telephone supervisor, night	751	tenter, billy (weaving)	365
tenser (horsehair)	398	telephone switchboard wire-		tenter, bird	074
tenser, horse hair (carding)	363	man	309	tenter, blast	182
tenser assistants	159	telephone tester	312	tenter, blast furnace	171
tenser attendant	159	telephone track boy	319	tenter, blowing engine	950
tea taster	789	telephone wireman	311	tenter, blowing engine (cotton	
teat roller	509	telephonist, night (Post Office)	756	mill)	363
teat stripper	909	telephonist (Post Office)	756	tenter, boiler	951
tea weigher	949	telescope maker	322	tenter, box and Doray (cotton	
texas, assistant (gas producer		teller, bank	939	waste)	363
attendant)	139	teller, chief	791	tenter, box (cotton)	963
texas, assistant (glass works)	139	teller, fortune	899	tenter, box (silk)	369
texas (blast furnace)	279	teller (printer)	548	tenter, box (wood combing)	363
texas (foundry)	278	tellerant	518	tenter, brading machine	
texas (glass)	122	telegaph attendant (gas works)	934	(cotton)	919
texas, shoddy	362	telegaph driver (gas works)	934	tenter, braid (silk)	398
texas (textile)	362	telegaph motor driver	934	tenter, breaker (cotton blow-	
texas man	362	telegaph motor man	934	ing room)	362
teale clipper (hot grower)	969	telegaph motor man	934	tenter, can	363
teale cutter	969	temperance buffet managers	911	tenter, cap frame	363
teale grower	911	temperance emblem maker	407	tenter, card (bottom)	363
teale make-up	639	temperance hotel keeper	944	tenter, card front (cotton)	363
teale merchant	770	temperance man (explosives)	118	tenter, carding engine	363
teale packer	969	temperance taker (steel		tenter, card (wool)	363
teale sorter	969	works)	279	tenter, chain	043
technical electrical instructor		temper (blast furnace)	099	tenter, cheating frame	911
(railways)	729	temper (cement)	099	tenter, clearing frame	967
tedder, sickle	278	temperer, city	194	tenter, clip	984
tedder, hog	949	temperer (fish-hooks)	220	tenter, cloth	384
tedder, coal	744	temperer (metal)	220	tenter, cold roll (iron and	
tedder (coal steches)	744	temperer (needles)	220	steel rolling)	279
tedder (dock labourer)	745	temperer (pottery)	104	tenter, comb	363
tedder (glass)	139	temperer (saw)	220	tenter, comb	363
tedder, ladle (steel manu-		temperer's assistant	220	tenter, condenser (silk)	363
facture)	278	temperite boy	279	tenter, coupling frame	371
tedder, epilog (steel manu-		temple maker	689	tenter, cotton reeling	
facture)	278	temple	222	machine	319
tedder (steel manufacture)	278	temple maker (loom)	210	tenter, crane	950
tedder-at-mixer	278	temple	435	tenter, Orington opener	967
tedder-at-mixer, metal	278	temut of forest holding	016	tenter, screw	024
tedder	399	tenter, bank (contractor's)	581	tenter, copels (Bessemer steel)	171
teeth maker (card clothing)	278	tenter, bar	915	tenter, copels (copper smelt-	
teeth setter, card	225	tenter, bucklayer's	555	ing)	171
telegaph clerk	735	tenter, driver's	959	tenter, cupels (iron founding)	182
telegaph inspector	706	tenter, engine	959	tenter, cutting machine	334
telegaph instrument		tenter, stock machine	529	tenter, dandy	363
assembler	309	tenter, floodgate	741	tenter, Derby	963
telegaph instrument calu-		tenter, lock	741	tenter, doll	363
brator	309	tenter, loom	370	tenter, driver's	889
telegaph instrument fitter	309	tenter, machine (automatic		tenter, door	047
telegaph instrument maker	309	or semi-automatic)	279	tenter, doublet finisher	362
telegaph instrument mounter	909	tender, machine (automatic		tenter, doubling	363
telegaph instrument pre-		woodworking machinery)	496	tenter, doubling frame	363
parator	919	tender, machine (gun)	278	tenter, drum	363
telegaph instrument wire-		tender, mason	573	tenter, draw box	363
man	755	tender, mill	573	tenter, draw (cotton)	363
telegaphist, probationary	755	tender, mill	573	tenter, draw frame (cotton)	363
telegaphist, signal (railway)	703	tender, ryst machine	279	tenter, drawing box	363
telegaphist, wireless	754	tender, shop	279	tenter, drawing (cotton)	363
telegaph labourer	919	tender, water (canal)	748	tenter, drawing frame (cotton)	963
telegaph lad (railway signal		tender, shop	279	tenter, drawing (silk)	363
box)	703	tender, wire	210	tenter, drum	049
telegaph lineman (railways)	311	tender, wire	210	tenter, engine	950
telegaph man	706	tender, ball sewer	688	tenter, engine head	703
telegaph mechanic	310	tender, ball stutcher	688	tenter, finisher	362
telegaph messenger (Post		tender, marker (professional)	889	tenter, finisher machine	362
Office)	758	tender, player, professional	889	tenter, finishing box	363
telegaph operator	755	tender, racket finisher	688	tenter, fire	951
telegaph operator, wireless		tender, racket frame maker	688	tenter, first hobbin and fly	
(Post Office)	754	tender, racket maker	688	frame	363
telegaph paper cutter	559	tender, racket pulser	688	tenter, flannellette raising	
telegaph post dresser	498	tender, racket stringer	688	machine	984
telegaph superintendent	750	tender	498	tenter, flat hardware	373
telegaph tape maker	559	tender, wood	498	tenter, fly (flyer)	363
telegaph tubing riveter	255	tender, hand	498	tenter, fly (flyer) frame	363
telegaph wireman	311	tender, machine	498	tenter, fourth hobbin and fly	
teledrom, press operator	619	tender, hand	530	frame	363
teledrom, worker	619	tenter, acid bath	361	tenter, frame	363
telephone attendant, night		tenter, assistant draw frame	399	tenter, front (cotton draw	
and Sunday (Post Office)	756	tenter, assistant (jute)	399	frame)	963
telephone cord tender	319	tenter, back (cotton carding)	399	tenter, front draw frame	363
telephone cord finisher	319	tenter, hack draw frame (draw		tenter, furnace	182
telephone cord worker	319	frame)	399	tenter, fustian pegging	
telephone damfactor	319	tenter, hack (draw frame)	399	machine	384
telephone faultfinder	319	tenter, hack (jute carding)	399	tenter, gig	384
telephone fitter	310	tenter, hack (screw)	399	tenter, gill	363
telephone fitter (G.P.O.)	310	tenter, hack (screw)	399	tenter, guiney	043
		tenter, hack (fly frame)	399	tenter, hard waste	962

Code Number.		Code Number.		Code Number.	
third engineer (ship) ...	734	ticket collector, head ...	705	tightener, cap ...	349
third framer ...	363	ticket collector, senior ...	705	tile cleaner (electric railway) ...	370
third framer dresser ...	383	ticket collector, train ...	705	tile decorator ...	103
third hand (bale house) ...	433	ticket collector, travelling ...	715	tile dipper ...	107
third hand (brass foundry) ...	185	ticketeer ...	949	tile draughtsman ...	332
third hand (fishing boat) ...	080	ticketeer, bobbin ...	949	tile edger ...	105
third helper ...	279	ticket examiner, chief ...	700	tile fitter ...	105
third mate ...	733	ticket examiner, foreman ...	705	tile fixer ...	371
third officer (cable ship) ...	733	ticket examiner, gate ...	705	tile fixer, encaustic ...	371
third rail repairer ...	316	ticket examiner, pier ...	741	tile fixer, mosaic ...	371
thirler ...	942	ticket examiner (railway) ...	705	tile fixer, tessellated ...	371
thong maker (leather) ...	340	ticket examiner (tramways) ...	714	tile layer ...	371
thong maker, whip (leather) ...	340	ticket examiner, travelling ...	705	tile lifter ...	119
thong maker (whips) ...	880	ticket inspector, chair ...	929	tile maker, bisque ...	105
thrasher ...	519	ticket inspector, chief (travelling) ...	709	tile maker, chumker ...	102
thread comber ...	399	ticket inspector (omnibus service, tramways) ...	714	tile maker, decorated ...	105
thread drawer ...	429	ticket inspector (railway) ...	705	tile maker, dinst ...	103
thread drawer (bandkerchief) ...	428	ticket inspector, travelling ...	709	tile maker, enamel ...	105
threader, bobbin (lace) ...	338	ticket maker ...	545	tile maker, encaustic tiled ...	105
threader (bolt, nut, screw, &c.) ...	200	ticket maker, reel ...	529	tile maker, false ...	105
threader, brass bobbin ...	394	ticket maker, window ...	548	tile maker, fancy ...	103
threader, brass (perambulators) ...	279	ticket marker (jute weaving) ...	398	tile maker, field ...	102
threader (carpets) ...	399	ticket office attendant (tramways) ...	729	tile maker, fine ...	102
threader (corset lace) ...	425	ticket office clerk ...	339	tile maker, glass ...	125
threader (embroidery machine) ...	429	ticket printer ...	529	tile maker, glazed ...	105
threader (lace) ...	398	ticket printer, metal leaf ...	537	tile maker (not glazed) ...	102
threader (needles) ...	279	ticket punch repairer ...	278	tile maker, paving ...	102
threader, shuttle ...	399	ticket sorter ...	349	tile maker, quarry ...	102
threader, wax ...	414	ticket tacker ...	349	tile maker, ridge ...	102
threader-up (dog iron) ...	949	ticket taker ...	705	tile maker, roofing ...	102
threader-up (pottery) ...	398	ticket vanman (tramways) ...	719	tile maker, rubber (moulding) ...	802
thread maker, gold ...	118	ticket varnisher ...	545	tile maker, rubber (stamping) ...	698
thread maker, gold and silver ...	398	ticket writer ...	543	tile maker, steam ...	102
thread maker, silver ...	398	ticket writer, din ...	540	tile maker, tessellated ...	105
thread picker ...	379	ticket writer, window ...	543	tile maker, vitreous ...	105
thread polisher, linen ...	398	tick maker ...	419	tile maker's assistant ...	119
thread roller (screws) ...	279	tick-tack ...	880	tile painter ...	108
thread spinner, gold ...	398	tick-tack ...	880	tile painteress ...	108
thread spinner, gold and silver ...	398	tick-tack ...	880	tile presser ...	105
thread spinner, silver ...	398	tick-tack ...	880	tiler (floor, &c.) ...	571
thread splice ...	398	tick-tack ...	880	tiler, ridge ...	571
thread spooler ...	387	tick-tack ...	880	tiler, roof ...	570
thread winder ...	387	tick-tack ...	880	tiler, wall ...	571
thread winder, elastic ...	387	tick-tack ...	880	tile slabber ...	571
three branch hand (glazing) ...	568	tick-tack ...	880	tile worker, tessellated ...	571
three branch hand (painting) ...	562	tick-tack ...	880	tilage works labourer ...	169
three branch hand (plumbing) ...	252	tick-tack ...	880	tilloster ...	949
three colour operator ...	525	tick-tack ...	880	tilter (hammersmith) ...	190
three colour process fine etcher ...	528	tick-tack ...	880	tilter (shingling) ...	174
three colour process mounter ...	540	tick-tack ...	880	tilter (steel manufacture) ...	171
three colour process operator ...	528	tick-tack ...	880	tilt hammer ...	190
three colour process printer ...	528	tick-tack ...	880	timber bender ...	498
three colour worker ...	529	tick-tack ...	880	timber carriage builder ...	475-8
thresher, corn ...	071	tick-tack ...	880	timber carriage maker ...	475-8
threshing machine attendant ...	071	tick-tack ...	880	timber carrier (dock) ...	745
thistle frame spinner ...	365	tick-tack ...	880	timber carrier (timber yard) ...	759
thistle reeler ...	367	tick-tack ...	880	timber checker (dock) ...	749
thistle spinner ...	365	tick-tack ...	880	timber checker (wood yard, &c.) ...	499
thistle tender ...	365	tick-tack ...	880	timber contractor ...	841
thistle winder ...	367	tick-tack ...	880	timber crooker ...	499
thresher (brewery or distillery) ...	459	tick-tack ...	880	timber cutter ...	498
thresher, cider ...	279	tick-tack ...	880	timber cutter's labourer ...	498
thresher (pottery) ...	105	tick-tack ...	880	timber drawer (coal mine) ...	047
thresher, silk ...	372	tick-tack ...	880	timber drawer (metal mine) ...	054
thresher, twist ...	372	tick-tack ...	880	timberer (coal mine) ...	054
thresher-on, lap ...	382	tick-tack ...	880	timberer (metal mine) ...	016
thresher-out (bolts, nuts, screws, &c.) ...	279	tick-tack ...	880	timber fuller ...	016
thresher-out (cement) ...	099	tick-tack ...	880	timber feller ...	016
thresher-out, kiln ...	099	tick-tack ...	880	timber finder ...	496
thresher-over (bleachworks) ...	399	tick-tack ...	880	timber hauler ...	027
thresher's attendant ...	119	tick-tack ...	880	timber hewer (forestry) ...	018
thresher's hauler ...	119	tick-tack ...	880	timber hewer (timber yard) ...	498
thresher's beacher ...	119	tick-tack ...	880	timber inspector ...	471
thresher-up (galvanised sheet) ...	279	tick-tack ...	880	timber inspector (coal mine) ...	041
throwing mill piecer (silk) ...	399	tick-tack ...	880	timber inspector (railway) ...	708
throwing room piecer ...	399	tick-tack ...	880	timber leader (carter) ...	719
throwster (pottery) ...	125	tick-tack ...	880	timber leader (coal mine) ...	054
throwster (silk) ...	372	tick-tack ...	880	timber leader (metal mine) ...	054
throwster, silk ...	372	tick-tack ...	880	timber leader (coal mine) ...	049
throwster's piecer ...	399	tick-tack ...	880	timber leader (for saw-mill) ...	499
thrum washer ...	350	tick-tack ...	880	timber loader (metal mine) ...	054
thrust cutter ...	429	tick-tack ...	880	timber loader (railway) ...	708
thumber (gloves) ...	243	tick-tack ...	880	timber loader, round ...	708
thumb latch maker ...	429	tick-tack ...	880	timber loading inspector ...	708
thumb puncher ...	477	tick-tack ...	880	timberman, assistant ...	498
thumper, tub ...	042	tick-tack ...	880	timberman (coal mine) ...	044
thurrier ...	403	tick-tack ...	880	timberman (metal mine) ...	054
tick cutter ...	705	tick-tack ...	880	timberman (on estate) ...	018
ticket checker (railway) ...	705	tick-tack ...	880	timberman (public works, railway) ...	581
ticket checker (stone mine or quarry) ...	072	tick-tack ...	880	timberman (slate mine or quarry) ...	673
ticket clerk ...	930	tick-tack ...	880	timber man (works yard) ...	499
ticket collector ...	705	tick-tack ...	880		
ticket collector, chief ...	705	tick-tack ...	880		
ticket collector, foreman ...	705	tick-tack ...	880		

542

	Code Number.		Code Number.		Code Number.
long bore (tube) ...	260	topaz cutter ...	638	townsman (cannasser) ...	774
long cleaver (tube drawing) ...	279	top barer ...	672	townsman (carrier) ...	719
long coverer ...	385	top beam ...	641	townsman (railway) ...	790
longer (wire) ...	279	top car boy (rope and twine) ...	369	tower ...	449
longman, back ...	170	top carter (rope and twine) ...	369	toy balloon maker ...	193
longman, front ...	278	top cleaner ...	449	toy maker, soft ...	150
longman (patent fuel) ...	989	top cross board maker ...	264	toy maker, steel ...	150
longman (steel forging) ...	278	top deck band (transcure) ...	474	toy painter ...	582
longman at cogging ...	278	top deliver ...	672	tozer ...	954
longman at finishing ...	278	top dryer ...	381	trace boy ...	729
longman at roughing ...	278	top filler ...	279	trace horse boy ...	729
tongue boiler ...	443	top floorman ...	449	trace horse foreman ...	715
tongue boiler, ox ...	443	top hand (metaliferous mine) ...	655	tracer (dye) ...	429
tongue cleaner ...	443	top hand, rib ...	374	tracer (dye) ...	429
tongue, buckle ...	278	top ironer ...	414	tracer, design ...	832
tongue (wire works) ...	278	top iron machine operator ...	414	tracer (drawing office) ...	832
tonnage dues and rates collec- tor ...	731	top maker, (boots) ...	414	tracer (pony driver) ...	943
tool boy (geostacker's) ...	589	top maker, chimney ...	102	tracer (embroidery pattern) ...	423
tool boy (stone mine or quarry) ...	672	top maker, crucible ...	267	tracer (glass) ...	138
tool carrier (blast furnace) ...	279	top maker, furnace ...	324	tracer (pottery) ...	186
tool carrier (coal mine) ...	647	top maker, patent rib ...	473	tracer (railway) ...	706
tool chest maker ...	474	top maker, rib ...	374	tracer-up ...	949
tooler (fustian, velvet) ...	359	top man (blast furnace) ...	279	tracing driver ...	706
tooler, velvet ...	359	topman (brewery) ...	458	tracing inspector ...	706
tool sander ...	709	top man, coke oven (charger)	989	tracing paper cutter ...	518
tool sander, engine ...	709	top man, coke oven (trans- fer) ...	989	tracing paper maker ...	518
tool feeder, edge ...	233	top man, nickel shed ...	171	track cleaner (trains) ...	729
tool fitter ...	278	topman (not on vertical retorts) ...	699	trackman (bearings) ...	200
tool fitter ...	233	topman (vertical retorts) ...	699	trackman (cycles) ...	278
tool fitter, edge ...	278	topographer ...	538	track man (trains) ...	729
tool fitter (edge tools) ...	278	topper ...	949	track setter ...	949
tool fitter, engine ...	219	topper (boot polish) ...	949	traction engine attendant, agricultural ...	921
tool fitter, machine ...	219	topper, bran ...	949	traction engine driver (not agricultural) ...	721
tool fitter, press ...	219	topper (fur drying) ...	335	traction engine driver (thresh- ing machine) ...	921
tool fitter (tool making) ...	265	topper (fields) ...	399	tractor driver ...	921
tool fitter (tool setting) ...	211	topper, jam ...	949	tractor driver, motor (not on farm) ...	721
tool forger ...	190	topper, paste ...	949	tractor driver, motor (not on farm) ...	721
tool forger, edge ...	190	topper (shirts) ...	428	tractor driver, steam (not on farm) ...	721
tool forger's striker, edge ...	190	topper, shirt ...	428	traddle room man ...	384
tool glaser ...	238	topper (warehouses) ...	949	trade marker ...	286
tool grinder ...	238	topper, warehouse ...	949	trader ...	770
tool grinder's assistant ...	238	topper, wheel ...	230	tradesman ...	770
tool maker ...	265	topper (wood heels) ...	484	tradesman's foot builder ...	475-6
tool maker, chasing ...	190	topper and bottomer ...	538	tradesman's foot maker ...	475-6
tool maker, diamond ...	688	topper and wrapper ...	949	traffic adviser ...	714
tool maker, engineer's ...	265	topper-up (ore) ...	458	traffic agent (canal) ...	714
tool maker, fine ...	633	topper-up (coal mine) ...	458	traffic agent, mineral ...	700
tool maker, machine ...	265	top piece beveller ...	429	traffic agent (railway) ...	700
tool maker, press ...	265	top piece filer (boots) ...	429	traffic assistant, outdoor (trains) ...	714
tool maker, web ...	633	top piece heel machine opera- tor ...	414	traffic assistant (trains) ...	714
tool maker (smith) ...	211	topping shifter ...	674	traffic canvasser, goods ...	700
tool man (builder's) ...	190	top ripper ...	367	traffic canvasser (railway) ...	700
tool man (engine) ...	709	top roller ...	674	traffic development superin- tendent ...	714
tool man (fustian, velvet) ...	359	top roller fitter (textile machinery) ...	209	traffic foreman ...	706
tool miller ...	200	top sewer ...	419	traffic foreman, assistant dis- trict ...	704
tool repainer (engineering works) ...	278	top stockkeeper ...	941	traffic foreman (colliery) ...	941
tool repainer (shipbuilding) ...	244	top sweeper ...	279	traffic foreman (inspector) ...	700
tool roll maker ...	340	top tender (textile printing) ...	399	traffic inspector, assistant dis- trict ...	714
tool rough grinder ...	237	top tenter (textile printing) ...	377	traffic inspector, assistant dis- trict (trains) ...	714
tool runner ...	279	top torch lace maker (marline) ...	376	traffic inspector, divisional (trains) ...	714
tool setter, edge ...	278	top torsion meter maker ...	309	traffic inspector, divisional (trains) ...	714
tool setter, edge (finisher) ...	278	top tortoiseshell assembler and finisher ...	618	traffic inspector, race ...	700
tool setter, edge (grinder) ...	237	top tortoiseshell cutter ...	618	traffic inspector (railway) ...	700
tool setter, machine fitter ...	211	top tortoiseshell monitor ...	618	traffic inspector (trains) ...	714
tool setter, press ...	211	top tortoiseshell polisher ...	618	traffic machine man ...	949
tool setter, shaped diamond ...	638	top tortoiseshell presser ...	618	traffic man ...	941
tool sharpener (grinder) ...	237	top tortoiseshell worker ...	618	traffic manager, assistant ...	941
tool sharpener (smith) ...	190	top tozer ...	954	traffic manager (canal) ...	731
tool smith ...	190	top tourist agent ...	771	traffic manager, chief (dock) ...	731
tool smith, engine ...	190	top tont (betting) ...	899	traffic manager (colliery) ...	941
tool smith, puddler's ...	190	top tont, bookmaker's ...	899	traffic manager, district ...	700
tool smith, ship ...	190	top tont (hotels, &c.) ...	929	traffic manager (docks) ...	731
tool stamper, edge ...	190	top tow boy ...	399	traffic manager (for commer- cial firm) ...	713
tool stamper, heavy edge ...	190	top tow carder ...	363	traffic manager, general ...	700
tool stockkeeper ...	941	top tow driver ...	399	traffic manager (non-metallic ferrous mine or quarry) ...	870
tool turner ...	200	top towed horse maker ...	473	traffic manager (railway) ...	700
tool turner, engine ...	200	top tower ...	105	traffic manager (trains) or omnibus) ...	710
tool turner, machine ...	200	top towman, acid ...	143	traffic manager's assistant ...	941
tool whetstone ...	237	top towman (chemicals) ...	143	traffic officer (aviation) ...	750
tooth brush maker ...	618	top towman (gas works) ...	680	traffic regulator, assistant (trains, &c.) ...	714
tooth brush worker ...	618	top towman, Glover ...	143		
toothbrush ...	234	top towman (papermaking) ...	516		
toothbrush, back saw ...	234	top towman (railway) ...	768		
toothbrush, saw ...	234	top towman, separator (explo- sives) ...	143		
tooth maker, willow ...	278	top towman, sulphate of soda ...	143		
toothpick maker (quill) ...	638	top towman, sulphuric acid ...	143		
tooth powder maker ...	148	top tower wagon driver (horse) ...	719		
top action maker (player piano) ...	642	top tower wagon driver (motor) ...	720		
topas ...	735	top tow feeder ...	362		
topas, salmon ...	735	top tow maker ...	362		
topas, stock ...	737	top town printer ...	759		
		top townsboy (horse driver) ...	716		

	Code Number		Code Number		Code Number
traffic regulator (railway) ...	703	tram greaser ...	047	trapping machinist ...	618
traffic regulator (trams or omnibus) ...	714	tram hammer and inspector (rolling mill) ...	190	trap youth ...	718
traffic shifter (coal mines) ...	704	trammer, assistant ...	043	traveller, advertising ...	774
traffic solicitor ...	700	trammer (china clay, &c.) ...	074	traveller, book ...	773
traffic superintendent, assistant (aviation) ...	750	trammer (coal mine) ...	043	traveller (canvas) ...	774
traffic superintendent (aviation) ...	750	trammer (metalliferous mine) ...	043	traveller (commercial) ...	773
traffic superintendent (colliery) ...	041	trammer, raw material (copper extraction) ...	079	traveller, directory ...	774
traffic superintendent, district (colliery) ...	714	trammer (silk) ...	072	traveller, incline ...	044
traffic superintendent, divisional ...	714	trammer (slate) ...	373	traveller, insurance ...	795
traffic superintendent (railway) ...	700	trammer (stone mine or quarry) ...	072	traveller, van ...	776
traffic superintendent (trams or omnibus) ...	710	trapper, can ...	399	traveller boy ...	449
tragoonian ...	885	tram repairer, colliery ...	652	traveller's assistant ...	718
tragodiense ...	885	tram rider ...	043	traveller's boy ...	718
trailer, bar ...	279	trasmith ...	190	traveller's coachman ...	718
trailer (coal mine) ...	043	train spranger ...	043	traveller's driver ...	718
trailer, hooking bar ...	178	trainway cashier ...	959	traveller's porter ...	759
trailer, iron ...	279	trainway layer ...	043	travelling adjuster ...	280
trailer (metal mine) ...	054	trainwaysman (coal mine) ...	043	travelling bag maker ...	345
trailer (rolling mill) ...	279	trainwayman (metalliferous mine) ...	054	travelling box maker (leather) ...	379
trailer (textile mill) ...	395	trainway manager ...	722	travelling box maker (wood) ...	474
trailer-out (rolling mill) ...	279	trainway motorman ...	722	travelling clerk (railway) ...	939
trailer-out (rolling mill) ...	279	trainway repairer ...	714	travelling cutter ...	237
train attendant ...	429	trainways inspector ...	714	travelling draper ...	779
train attendant, ballast ...	702	trainways superintendent ...	714	travelling examiner, chief ...	700
train booker (railway) ...	703	trank ...	411	travelling excess inspector ...	700
train caller ...	708	trank sorter ...	423	travelling grinder ...	237
train connector ...	704	trank trimmer ...	429	travelling horse inspector ...	700
train connector, passenger ...	704	transcriber ...	939	travelling inspector ...	700
train controller ...	700	transferer (glass) ...	528	travelling inspector, district ...	700
train despatcher ...	700	transferer, bookery ...	874	travelling inspector, goods ...	700
trainer, animal ...	899	transferer, lithographer's ...	528	travelling led (racing stables) ...	868
trainer, colliery horse ...	047	transferer, lithograph (pottery) ...	108	travelling luggage inspector ...	700
trainer, dog ...	899	transferer (metallic bedsteads) ...	279	travelling main train inspector ...	700
trainer (football) ...	899	transferer (pottery) ...	108	travelling parcels inspector ...	700
trainer, greyhound ...	899	transferer, printer's ...	108	travelling photographer ...	527
trainer, hog ...	024	transferer, printing ...	108	travelling porter ...	706
trainer, horse (colliery) ...	847	transferer (tin plate) ...	529	travelling salesman ...	773
trainer, horse (not race horses) ...	025	transferer (linoleum, &c.) ...	638	travelling signalman ...	709
trainer, pony ...	049	transferer (wood) ...	499	travelling ticket collector ...	705
trainer (race-horse) ...	886	transferer (wood) ...	499	travelling ticket examiner ...	705
train flagman ...	704	transfer fixer ...	279	travelling ticket inspector ...	709
train foreman ...	704	transfer maker ...	528	travelling tinker ...	264
train guard (coal mine) ...	043	transfer man ...	706	traveller-driver ...	200
train guard, electric ...	702	transfer patcher ...	528	traveller hooker ...	950
train indicating board attendant ...	706	transfer porter ...	709	traveller man ...	706
train indicator porter ...	706	transfer porter, hand ...	706	traveller worker ...	725
train information attendant ...	709	transfer porter (railway) ...	706	trawler (fishing) ...	706
train information officer ...	709	transfer printer, cycle ...	529	trawler (mud) ...	738
training stable attendant ...	888	transfer printer (lithographer's) ...	528	trawler (table mine) ...	838
train inspector ...	700	transfer printer (tin plate) ...	528	trawler owner ...	000
train inspector, goods ...	700	transfer puller (lithographer's) ...	528	trawl mender ...	398
train inspector, passenger ...	700	transfer slide maker ...	558	trawl net fixer ...	396
train inspector, travelling mineral ...	706	transformation maker ...	428	trawl net maker ...	396
train label board foreman ...	706	transformer assembler ...	318	trawl shaft turner ...	496
train label board porter ...	706	transformer attendant ...	318	tray filler ...	149
train labeller ...	706	transformer builder ...	318	tray layer ...	149
train man, ballast (railways) ...	577	transformer fitter ...	318	tray maker (metal) ...	254
train man (coal mine) ...	043	transformer hand ...	318	tray maker, tin ...	254
train preparer ...	702	transformer maker ...	318	tray maker, wicker ...	254
train receiver ...	704	transformer moulder ...	318	tray maker (wood) ...	496
train recorder (porter) ...	706	transformer minder ...	318	treed cutter ...	608
train recorder (signal box) ...	703	tranship guard ...	303	treed cutter, tyre ...	608
train register boy ...	703	tranship man ...	702	treeder, clay ...	119
train reminder ...	703	transit lad ...	043	treeder, lace ...	119
train reporter ...	704	translator (boats) ...	412	treeder (rolling stock tyres) ...	200
train rider ...	043	translator, tailor's ...	404	treeder, wheel ...	399
train runner ...	543	translator (umbrellas) ...	415	treeder-at-croft ...	200
train setter ...	704	transporter driver, electric ...	954	treeder minder ...	399
train starter ...	706	transporter driver (rolling mill) ...	279	treeder ...	419
train ticket collector ...	705	transporting foreman (P.L.A.) ...	740	treeder, velvet ...	384
train timekeeper ...	700	transport man ...	745	treeder, wicker ...	384
train wagon inspector ...	700	transport manager ...	713	treeder (brewery) ...	458
train boy ...	043	trapper ...	745	treater, timber ...	499
trapper carpenter ...	474	trap cleaner ...	719	treement maker (glycerine recovery) ...	148
trapper cleaner ...	729	trap door minder ...	724	tree bender (spades, shovels) ...	496
trapper conductor ...	724	trap doubler ...	371	tree filler ...	016
trapper driver ...	722	trap driver ...	718	tree maker, boot ...	490
trapper driver, cable ...	722	trapese artist ...	899	tree maker, saddle ...	490
trapper driver, electric ...	722	trap lad (coachman) ...	718	tree maker, spade and shovel ...	486
trapper driver, freight ...	722	trap lad (smiths) ...	744	tree planter ...	016
trapper driver, horse ...	722	trap maker ...	105	tree turner, axle ...	414
trapper car fitter ...	210	trap maker (coal mine) ...	047	tree turner (spades, shovels) ...	209
trapper guard ...	724	trapper (game-keeping) ...	910	trellis maker ...	498
trapper junior guard ...	724	trapper (metalliferous mine) ...	054	trellis maker ...	498
trapper washer ...	729	trapper, rabbit (farm) ...	039	trellis maker ...	581
trapper conductor ...	724	trapper (railway) ...	704	trellis maker ...	581
trapper driver ...	724	trapper, screen ...	049	trellis maker ...	474
trapper driver, rail-less ...	722	trapper (stitches) ...	744	triangle maker ...	276
trapper filler ...	042	trapper (stick making) ...	464	tributer ...	054
		trapper, wool ...	352	tribologist ...	920
		trapper boy ...	047		

Code Number.		Code Number.		Code Number.	
tricycle maker ...	229	trimmer, mat ...	386	trotter dresser, sheep's ...	448
trier, pipe (gas works) ...	699	trimmer (metalliferous mine or working) ...	656	trough enter ...	375
trier, slag (copper extraction) ...	278	trimmer (metal trades) ...	279	trough maker (earthenware) ...	105
trigger maker ...	239	trimmer (metal, bolt) ...	280	trough maker (wood) ...	474
trigger maker, hair ...	239	trimmer, nail brush ...	416	trouncer ...	789
trimmer, aeroplane ...	504	trimmer, paraflex ...	392	trouser band ...	404
trimmer (aeroplane, airplane, etc.) ...	504	trimmer, pattern card ...	559	trouser fender ...	404
trimmer, are lamp ...	698	trimmer, perambulator ...	504	trouser machine ...	404
trimmer (artificial teeth) ...	118	trimmer (piano hammers) ...	648	trouser presser ...	404
trimmer (asbestos) ...	518	trimmer, piece ...	379	trowel (hand) ...	638
trimmer, ash ...	970	trimmer, plate glass ...	319	trowel, hand ...	638
trimmer, ash (electricity supply) ...	699	trimmer, ploughshare ...	163	trowel, machine ...	639
trimmer, ballast ...	745	trimmer, post card ...	559	trowler ...	638
trimmer (basket) ...	472	trimmer (pottery) ...	105	trowman ...	738
trimmer, basket ...	472	trimmer, print ...	407	truck builder (army) ...	475-8
trimmer, bass ...	639	trimmer (printer's rollers) ...	699	truck driver (electric) ...	719
trimmer, basinetto ...	504	trimmer, rubber ...	699	truck driver, steam ...	719
trimmer, bead ...	407	trimmer, saw ...	159	truck driver, motor ...	719
trimmer, block ...	609	trimmer (seed crushing) ...	159	truck, blue ...	759
trimmer (bookbinder's) ...	532	trimmer, shell ...	181	truck, car ...	399
trimmer, boot ...	429	trimmer (shipping services) ...	738	truck (cartridge) ...	149
trimmer, boot upper ...	429	trimmer, shoe ...	429	truck (factory, warehouse) ...	970
trimmer (brass) ...	185	trimmer (silk bale, opera hat) ...	943	truck (gas works) ...	699
trimmer, bristle ...	639	trimmer (silk warehouse) ...	943	truck (paper tube) ...	159
trimmer (brooms and brushes) ...	638	trimmer (solid tyre) ...	609	truck (textile mill) ...	399
trimmer, budget ...	504	trimmer, sponge ...	156	truck, warehouse ...	942
trimmer, bullet ...	279	trimmer, sugar ...	449	truck (coal mine) ...	042
trimmer, oaks (oil cake) ...	159	trimmer, sunshade ...	404	truck filter (metalliferous mine or working) ...	056
trimmer, card ...	538	trimmer, tailor's ...	404	truck filter ...	210
trimmer (card and pasteboard making) ...	518	trimmer (tailor's) ...	404	truck horse driver ...	704
trimmer (carpets) ...	398	trimmer (tin boxes) ...	279	truck labeller ...	706
trimmer, carriage ...	504	trimmer, trunk (gloves) ...	429	truck lad ...	043
trimmer (cased tubes) ...	279	trimmer, umbrella, parasol ...	416	truck loader ...	042
trimmer (cement) ...	699	trimmer, upholsterer's ...	504	truck maker, wicker ...	472
trimmer, cloth ...	384	trimmer, upper ...	429	truck maker (wood) ...	475-6
trimmer (cloth bale) ...	410	trimmer (whalebone brushes) ...	819	truckman (coal mine) ...	049
trimmer (clothing) ...	419	trimmer, white ...	504	truckman (garman) ...	719
trimmer, coach ...	504	trimmer, wiflow rod ...	039	truckman (metal mine) ...	704
trimmer, coal (coal mine) ...	042	trimmer, witty ...	039	truckman (pig iron) ...	079
trimmer, coal (electricity supply) ...	699	trimmer's assistant ...	509	truckman (railway) ...	709
trimmer, coal (fishing boat) ...	736	trimming board maker ...	498	truck proprietor ...	706
trimmer, coal (gas works) ...	699	trimming outfit ...	403	truck pumper (margarine) ...	445
trimmer, coal (shipping service) ...	736	trimming machine hand ...	638	truck roller ...	729
trimmer, coal (stitches) ...	744	trimming maker, pyjama ...	428	truck washer ...	729
trimmer, coffin ...	508	trimming maker (shippers) ...	428	truck weigher ...	048
trimmer, coil ...	303	trimming sewer-on ...	419	truer, cycle wheel ...	276
trimmer, coke (gas works) ...	699	Trim welding ...	190	truer, granite roll ...	575
trimmer, coke ...	279	Trinity buoy keeper ...	731	truer (grindstone) ...	237
trimmer (cooperage) ...	477	Trinity House boat man ...	736	truer, wheel (cycles) ...	276
trimmer (coarse) ...	408	Trinity House engineer ...	244	truer, wheel (perambulators, etc.) ...	276
trimmer, edge ...	429	Trinity House mariner ...	735	truss-up, fork (agricultural) ...	276
trimmer (electric arc lamp) ...	319	Trinity House officer ...	735	truss-up, wheel (perambulators, etc.) ...	276
trimmer (electricity supply) ...	699	Trinity House seaman ...	735	true to scale operator (blue prints) ...	546
trimmer (embroidery) ...	429	tripe cleaner ...	448	truss maker ...	496
trimmer, engine ...	278	tripe dresser ...	448	trussel maker (blast furnace) ...	565
trimmer, fancy ...	638	tripe shop keeper ...	911	trussel maker, ear ...	583
trimmer, feather (shuttle-cocks) ...	686	triped maker ...	473	trussel maker, heading ...	568
trimmer (fish curing) ...	396	triple shaver ...	704	trussel ...	278
trimmer (fishing net) ...	396	trolley attendant (tramways) ...	714	truss and bag maker ...	770
trimmer (fishing vessel) ...	736	trolley boy (garman's) ...	723	trunk ...	058
trimmer, grain ...	745	trolley boy (factory, warehouse) ...	870	trunk maker, iron ...	345
trimmer, head ...	639	trolley boy (patent fuel) ...	099	trunk maker, leather ...	264
trimmer (hanta) ...	410	trolley boy (railway catenary) ...	329	trunk maker (leather, etc.) ...	345
trimmer, hay (not on farm) ...	448	trolley boy (textile mill) ...	399	trunk maker, Seratoga ...	274
trimmer, head (cooperage) ...	471	trolleyer ...	279	trunk maker, kin ...	284
trimmer, heel pad (ruiter) ...	429	trolley examiner (tramways) ...	714	trunk maker (wood) ...	474
trimmer, helmet ...	428	trolley maker ...	475-6	trunk packer (kitter-up) ...	245
trimmer (hosiery finishing) ...	384	trolleyman (garman) ...	719	trunk cover ...	480
trimmer, hot ...	279	trolleyman (explosive) ...	149	truss (cask) ...	683
trimmer, Indian rubber ...	608	trolleyman (factory, warehouse) ...	970	trusser, fowl ...	446
trimmer, iron ...	429	trolleyman (gas works) ...	699	trusser, hay (hay dealing) ...	449
trimmer (iron foundry) ...	181	trolleyman (metal) ...	279	trusser, hay (on farm) ...	624
trimmer (jewellery wire) ...	181	trolleyman (stone mine or quarry) ...	072	trusser (packing cases) ...	949
trimmer, kiln (sugar refining) ...	449	trolleyman (tinplate) ...	279	trusser, straw ...	024
trimmer, label (hat factory) ...	429	trolleyman ...	000	trusser ...	334
trimmer, lamp (dock) ...	748	trolleyman (gas works) ...	699	truss maker, piano ...	486
trimmer, lamp (electric arc lamp) ...	316	trolleyman (patent fuel) ...	099	truss maker, roof ...	474
trimmer, lamp (on board ship) ...	735	trolleyman (stone mine or quarry) ...	072	truss maker (surgical) ...	563
trimmer, lamp (railway) ...	706	trolleyman (tinplate) ...	279	truss spring maker ...	279
trimmer, lamp (street, works) ...	369	trolleyman ...	000	truster ...	334
trimmer, lamp plate ...	279	trolleyman (gas works) ...	699	truster (drums, keys) ...	278
trimmer (leather) ...	338	trolleyman (patent fuel) ...	099	truster (gas fittings) ...	278
trimmer, leather (railway coaches) ...	564	trolleyman (stone mine or quarry) ...	072	truster-out ...	429
trimmer, lime ...	089	trolleyman (tinplate) ...	279	tub and hate man ...	333
trimmer (linoleum) ...	638	trolleyman ...	000	tubber (coal mine) ...	043
trimmer, lin (accumulators) ...	319	trolleyman (gas works) ...	699	tubber (cooperage) ...	477
trimmer, mantle ...	404	trolleyman (patent fuel) ...	099	tubber (skins) ...	338
trimmer (marque) ...	148	trolleyman (stone mine or quarry) ...	072	tubbin (cooper) ...	477
		trolleyman (tinplate) ...	279	tubbin (coopering labourer) ...	499

Tu

	Code Number.		Code Number.		Code Number.
tub cleaner (colliery) ...	043	tube solderer, brass ...	262	tin room hand ...	459
tub cleaner (metalliferous mine or working) ...	056	tube sorter (textile mill) ...	399	tin room man (brewery) ...	439
tub coupler (coal mine) ...	043	tube steamer ...	278	tin room man (distillery) ...	438
tub coupler (metalliferous mine) ...	054	tube stretcher ...	278	tupper ...	279
tube and hoop clenchers (textile machinery) ...	279	tube stripper (carpenter) ...	399	tupper at stripper and winder ...	279
tube attendant (Post Office, &c.) ...	799	tube sweeper (railway) ...	799	turbine blade drawer ...	254
tube bender ...	278	tube sweeper, ship's boiler ...	749	turbine blade ...	250
tube bracelet maker ...	294	tube turner ...	278	turbine driver ...	950
tube braker ...	262	tube turner, steel ...	260	turbine driver, assistant ...	359
tube brusher ...	709	tube welder (tube fixing) ...	249	turbine driver, junior ...	359
tube brush maker ...	633	tube welder (tube making) ...	266	turbine driver's assistant ...	359
tube buster ...	279	tube winder (electrical) ...	303	turbine engine man ...	359
tube charger, brass ...	279	tube winder (paper) ...	559	turbine fitter ...	319
tube charger (metallic had- steads) ...	279	tube winder (textile) ...	357	turbine-alternator winder ...	313
tube cleaner (blast furnace) ...	279	tube worker, concrete ...	099	turbine house superintendent ...	691
tube cleaner, boiler ...	952	tube worker, micaite ...	304	turbine winder ...	303
tube cleaner (railway) ...	709	tube wrapper ...	609	turf accountant ...	890
tube cleaner (salt works) ...	099	tub fastener ...	043	turf adviser ...	890
tube counter and bobbin checker ...	439	tub filler ...	042	turf commission agent ...	890
tube cutter (cardboard) ...	559	tub greaser ...	047	turf contractor ...	890
tube cutter (cylces) ...	279	tub hauler (moulding) ...	189	turf correspondent ...	890
tube cutter, gas ...	279	tub hand, principle ...	190	turf dealer ...	890
tube drawer ...	286	tubing ...	606	turf getter ...	890
tube drawer, brass ...	286	tubing machine hand ...	602	turf labourer ...	890
tube drawer, casted ...	286	tub loader ...	043	turf slitter ...	890
tube drawer, copper ...	286	tub lowerer ...	043	turf worker ...	890
tube drawer, cycle ...	286	tub man, bone brush ...	619	turkey breeder ...	011
tube drawer, firing ...	286	tub man (candles) ...	159	Turkey oilstone maker ...	575
tube drawer (glass) ...	124	tub mender ...	632	Turkey red dyer ...	359
tube drawer, zinc ...	286	tub mender, colliery ...	652	Turkish bath attendant ...	919
tube dresser ...	279	tub mender (volcanised shoe) ...	559	Turkish delight maker ...	435
tube dresser, brass ...	279	tub moulder (brass) ...	180	turlock, assistant (water works) ...	698
tube expander ...	278	tub repurser (colliery) ...	652	turlock's assistant (water works) ...	698
tube filler ...	149	tub repairer (scopage) ...	477	turned shaker ...	699
tube fitter (assembling) ...	210	tub room man ...	146	turned shaker ...	699
tube fitter, boiler ...	222	tub room man, cobalt ...	146	turner, abrasive wheel ...	093
tube fitter (locomotive) ...	210	tub sizer ...	518	turner, aluminium ...	210
tube fitter (pipe fitting) ...	251	tub thumper ...	477	turner, amber ...	638
tube flosser ...	233	tubular winder ...	367	turner, axle ...	200
tube former, brass ...	233	tucker (blackball) ...	311	turner, axle box ...	200
tube galvaniser ...	234	tucker (clothing trades) ...	384	turner, axle bush brass ...	224
tube hand ...	602	tucker, machine ...	419	turner, axle cap brass ...	224
tube jobber, paper ...	551	tucker (needle packing) ...	949	turner, axle tree ...	210
tube liner (tiles) ...	108	tuck net mechanist ...	419	turner, bar ...	210
tube liner (wars) ...	105	tuck pointer ...	545	turner, barrel ...	729
tube machine man, paper ...	551	tuck outer (carpenter) ...	398	turner, beam (textile ma- chinery) ...	200
tube machine tucker, paper ...	551	tuff cutter, wool ...	398	turner, beam (textile ma- chinery—wood) ...	486
tube machinist ...	371	tuff ...	502	turner, billiard hall ...	612
tube maker, brass casted ...	286	tuff boy ...	735	turner, bobbin (cardboard) ...	559
tube maker (brass musical instruments) ...	264	tuff company's agent ...	735	turner, bobbin (wood) ...	486
tube maker, container ...	559	tuff ...	043	turner, bobbin mill ...	486
tube maker, cop. ...	559	tuff boy ...	043	turner, boiler ...	200
tube maker, elastic ...	602	tuff master ...	735	turner, bone ...	612
tube maker, liner ...	602	tumbler (boot and shoe plates) ...	735	turner, bone disc ...	612
tube maker, micaite ...	304	tumbler (entertainer) ...	699	turner, bone shaft ...	612
tube maker, motor ...	602	tumbler (iron castings) ...	183	turner, bone, born, &c. ...	612
tube maker (paper) ...	559	tumbler (leather) ...	043	turner, bowl ...	486
tube maker, paper ...	559	tumblerman (coal mine) ...	043	turner, bowl (domestic uten- sils) ...	436
tube maker, pipe ...	602	tumbler man (leather) ...	349	turner, bowl (games) ...	486
tube maker (rubber) ...	602	Turner feeder ...	363	turner, bowl (roller) ...	200
tube maker, sanitary ...	105	Turnbridge ware maker ...	473	turner, bowl (textile ma- chinery) ...	436
tube maker, sight ...	278	tuner, bell ...	276	turner, bowl (tobacco pipes) ...	486
tubemenu ...	749	tuner (brass and wood wind instruments) ...	648	turner, brass ...	224
tube manipulator ...	278	tuner, head (weaving) ...	356	turner, briar bowl ...	486
tube messenger ...	756	tuner (loom) ...	356	turner, briar mouthpiece ...	608
tube overlooker, paper ...	551	tuner, loom ...	356	turner, brush ...	486
tube painter ...	595	tuner, mule ...	356	turner, brush wood ...	486
tube piler ...	943	tuner (piano) ...	354	turner, buck bers ...	612
tube presser ...	278	tuner, piano ...	643	turner, buffer ...	200
tuber (boiler) ...	222	tuner (pipe organs) ...	648	turner, button ...	612
tuber, boiler ...	222	tuner, power loom ...	356	turner, calender and mangle bowl ...	200
tuber (cotton) ...	399	tuner, spinning mule ...	354	turner, calender bowl ...	200
tuber, engine (boiler) ...	222	tuner (vehicles) ...	278	turner, canal bridge ...	741
tuber, engine (locomotive) ...	210	tuner and regulator (pipe organs) ...	648	turner, capstan ...	200
tuber (rape and truce) ...	399	tuner's assistant ...	396	turner, capstan lathe ...	281
tuber, spindle (cotton) ...	899	tungsten former ...	278	turner, case engine ...	281
tuber, steel wire ...	220	tungsten plate enter ...	278	turner, case (mountain peak) ...	608
tube roller ...	559	tungsten plate former ...	278	turner, case (watches) ...	281
tuber's labourer ...	223	tungsten plate maker ...	278	turner, celluloid ...	612
tube runner ...	709	tungsten wire drawer ...	278	turner, chain ...	399
tube sawyer ...	279	tungsten wire worker ...	278	turner, chair ...	486
tube sawyer, copper ...	279	tun home man ...	459	turner, chair stoff ...	486
tube screwer ...	200	tuning fork maker ...	278	turner, chain ...	399
tube soter ...	399	tun maker ...	278	turner, chair stoff ...	486
tube soter, spinning ...	399	tun man (distillery) ...	458	turner, chain ...	399
tube stop man (celluloid) ...	618	tun man, mash (brewery) ...	458	turner, chair stoff ...	486
tube shoulderer ...	278	tunnel inspector ...	458	turner, chain ...	399
tube skiver ...	609	tunneler (railway) ...	703	turner, chair stoff ...	486
tube smith ...	190	tunnel miner ...	581	turner, chain ...	399
tube smith (copper) ...	227	tunnel oven part maker ...	102	turner, collar ...	428
		tunnel repairer ...	377	turner, collar, &c. ...	428
		tunser ...	458	turner, commutator ...	210
		tun room foreman ...	451	turner, copper ...	210

	Code Number.		Code Number.		Code Number.
turner, copper band	200	turner, spar and fluor spar	638	tufting maker	180
turner, copper roller	200	turner, ornament	638	tufting man	950
turner, core	183	turner, spiral	486	tufting pipe carrier	183
turner, cork	558	turner, spool	436	tufting pump attendant	950
turner, counter	612	turner, steel tube	200	tufting maker	103
turner, crank	423	turner (stereotype)	524	tufting peeler	499
turner, cuff patent	200	turner, stock lock key	200	tufting (blankets and cloth)	415
turner, cutter	200	turner, stone	200	tufting weaver	370
turner, die	200	turner, stud	200	tufting cutter, comb	619
turner, emery wheel	608	turner, switch	043	tufting tender	367
turner, engine (metals)	190	turner (tarpaulins, etc.)	429	tufting braider	398
turner, engine (precious metals)	200	turner, textile	200	tufting dresser	398
turner, engine (railway)	701	turner (tie, etc.)	428	tufting finisher	398
turner, engine tool	200	turner, tool	200	tufting maker (hand)	365
turner, engraver's	200	turner, towel shaft	486	tufting maker (machines)	365
turner, fan	047	turner, tree	486	tufting maker, shop	398
turner, ferrule	200	turner, tube	200	tufting reeler	398
turner, fibre	508	turner, turret lathe	200	tufting (cotton)	398
turner, flyer socket	200	turner, twist	486	tufting twiner (sacks, bags)	419
turner, flyer top	200	turner, tyre	200	tufting twiner (wool)	368
turner, fly wheel	200	turner, valve	200	tufting twiner minder	368
turner, fountain pen	608	turner, vegetable ivory	612	tufting twiner	368
turner, fountain pen case	508	turner, wire box	200	tufting twiner	368
turner, frame (holders and tanks)	222	turner, wire pipe	508	tufting twiner	368
turner, frame (ship)	222	turner, vulcanite	508	tufting twiner	368
turner, fringe mould	486	turner, wheel	200	tufting twiner	368
turner, grease	276	turner, wheel axle	200	tufting twiner	368
turner, grindstone	575	turner, wheel (grinder)	237	tufting twiner (celluloid)	619
turner, gun	200	turner, wheel hub	200	tufting twiner (celluloid)	619
turner, gun mountings	200	turner, wheel (pottery)	119	tufting twiner (pottery)	106
turner, hand (collars)	423	turner (wind instruments—almonds)	508	tufting twiner (textile)	368
turner, handle	508	turner, window pin	200	tufting twiner	368
turner, hard rubber	508	turner, wire (textile machine)	278	tufting twiner	368
turner, hardwood	486	turner, wood	486	tufting twiner	368
turner, hat leather	429	turner, wood block	486	tufting twiner	368
turner, heel	486	turner, wooden bobbin	486	tufting twiner	368
turner, hings	200	turner, wooden bobbin mill	486	tufting twiner	368
turner, hollow ware	200	turner, wooden spool	486	tufting twiner	368
turner, horn	612	turner (wood blocks)	486	tufting twiner	368
turner, horn handle	412	turner (wood wind instruments)	486	tufting twiner	368
turner, (hostry)	398	turner-down (gloves)	429	tufting twiner	368
turner, hub	200	turner for living (gloves)	559	tufting twiner	368
turner, insulator	105	turner-in (cardboard boxes)	429	tufting twiner	368
turner, iron	200	turner-in (railway)	701	tufting twiner	368
turner, ivory	612	turner-in (roll rolling)	178	tufting twiner	368
turner, jig	05	turner-in (textile machinery)	278	tufting twiner	368
turner, key	200	turner-in (wine)	178	tufting twiner	368
turner, lead	200	turner-off (hostry)	398	tufting twiner	368
turner, locomotive	200	turner-off, roll	486	tufting twiner	368
turner, logwood	143	turner-off (roller engraving)	200	tufting twiner	368
turner, loom	200	turner-off (tobacco)	463	tufting twiner	368
turner, machine tool	200	turner-off, tobacco	468	tufting twiner	368
turner, mandrel	200	turner-on, water (at rolls)	278	tufting twiner	368
turner, marble	575	turner-on, bobbin (wood)	486	tufting twiner	368
turner, marine	200	turner-on, brass bobbins	278	tufting twiner	368
turner (metal)	200	turner-out (collars)	043	tufting twiner	368
turner, mica	098	turner-out, glazier's	278	tufting twiner	368
turner, monumental marble	575	turner-out (shirts)	278	tufting twiner	368
turner, motor	200	turner-over, fibre can	558	tufting twiner	368
turner, mouthpiece (pipes)	608	turner-over (galvanized sheet)	278	tufting twiner	368
turner, muffin	115	turner-over (iron and steel rolling)	278	tufting twiner	368
turner (musical instruments)	486	turner-over (press hand)	254	tufting twiner	368
turner, optical	322	turner-up (band)	119	tufting twiner	368
turner, oval	436	turner-up (iron and steel rolling)	409	tufting twiner	368
turner, patent	425	turner-up, machine	278	tufting twiner	368
turner, pipe bowl	486	turner-up man	278	tufting twiner	368
turner, pipe	486	turning fitter	211	tufting twiner	368
turner, plate lock key	200	turning-girl	278	tufting twiner	368
turner, point	704	turning machine, wood	409	tufting twiner	368
turner (pottery)	105	turner minder	043	tufting twiner	368
turner (precious metals)	258	turn-over, carriage	143	tufting twiner	368
turner (process engraving)	486	turnupike gatekeeper	729	tufting twiner	368
turner (railway)	701	turn shoe maker	414	tufting twiner	368
turner (reed organs)	643	turnsman	043	tufting twiner	368
turner, rib engine (rifles)	200	turnstall attendant	489	tufting twiner	368
turner, rim	200	turnstall man	899	tufting twiner	368
turner, ring (spinning frame)	200	turnstall hand	575	tufting twiner	368
turner, roll	144-169	turnstall man	701	tufting twiner	368
turner, machinery	200	turnstall machine	575	tufting twiner	368
turner, roller (wood)	486	turnstall man	701	tufting twiner	368
turner (rollers for barrel organs)	486	turnstall machine	575	tufting twiner	368
turner, roller (vulcanized)	608	turnstall man	701	tufting twiner	368
turner, rose engine	283	turnstall machine	575	tufting twiner	368
turner, rough	200	turnstall man	701	tufting twiner	368
turner, shaft (golf clubs)	486	turnstall machine	575	tufting twiner	368
turner, shaft (spades and shovels)	486	turnstall man	701	tufting twiner	368
turner, shed	701	turnstall machine	575	tufting twiner	368
turner, sheet (galvanized sheet)	279	turnstall man	701	tufting twiner	368
turner, shell	200	turnstall machine	575	tufting twiner	368
turner, ship frame	222	turnstall man	701	tufting twiner	368
turner, shirt	499	turnstall machine	575	tufting twiner	368
turner, skelp	266	turnstall man	701	tufting twiner	368
turner (skins)	338	turnstall machine	575	tufting twiner	368

	Code Number.		Code Number.		Code Number.
twist weigher	369	unclawer	074	unloader, pig iron	278
twist winder (bottom)	367	unclapper	043	unloader, rack (tinsplate)	279
tyer (glove)	348	under-carder	353	unloader, rail	278
tyer, leather	348	undercarrage maker	196	unloader, rubbish (coal mine)	048
tyer, mason	929	under-carter	023	unloader, rubbish (slate mine)	048
typanti maker	648	underclothing cutter	403	or quarry	073
typantiist	886	underclothing maker	419	unloader, slate (quay)	745
type caster	278	underclothing scissor	418	unloader, spiegel	279
type distributor	548	underer (cork hats)	418	unloader, timber (colliery)	049
type dresser	278	underer, helmet	420	unloader, warehouse	942
type finisher	278	underframe cleaner (railway)	659	unloader, ware house (railway)	746
type founder	278	rolling stock	108	unloader of raw material	279
type metal caster	278	underglaze painter	108	unwaterer (hair)	504
type pager-up	278	underglaze paintress	108	upholsterer	504
typer (grey cloth)	398	under goods guard	702	upholsterer, aeroplane	504
typer sealer	322	underground agent (coal mine)	040	upholsterer, carriage	504
typewriter	939	underground agent (metal)	051	upholsterer, perambulator	504
typewriter maker	267	underground	051	upholsterer's assistant	504
typewriter mechanic	267	underground bankman	043	upholsterer's machinist	504
typewriter repairer	267	underground captain	051	upholsterer's trimmer	419
typewriter ribbon unfolder	267	underground foreman	051	upholsterer	504
typewriting carbon maker	558	underground labourer (coal mine)	047	upsetting machineman	428
typewriting pad folder	558	underground labourer (con-	581	crisel maker	105
typewriting ribbon ink	558	tractor's	051	urn maker	294
typewriting ribbon machine	558	underground labourer (metal mine)	054	useful maid	800
typist	939	underground manager	051	usher, seat (theatre, etc.)	389
typist, shorthand	939	underground stoker	047	usher (theatre, etc.)	389
typist, shorthand (typewriting bureau)	939	underground surveyor	040	utensil maker, cooking	264
typographer	531	under guard	702	utensil maker, dairy	264
typographical operator	531	underhand (putter)	172	utensil maker, domestic	185
tyre base builder	602	underhand ball furnaceman	278		
tyre becker	196	underhand bander	172		
tyre borer	200	underhand husheller	172		
tyre bowler	279	underhand furnaceman	171		
tyre chipper	279	underhand heater	171		
tyre curler	598	underhand moulder	452		
tyre dresser	279	underhand pecker	250		
tyre dump-on (rolling stock)	279	underhand roller	178		
tyre examiner	609	underhand stave furnaceman	172		
tyre finisher	609	under-horseman	023		
tyre fitter	659	under-lagger (furnace)	171		
tyre fitter, cushion	659	under-lumper (railways)	943		
tyre fitter, cycle	659	underlooker (coal mine)	651		
tyre fitter, motor	659	underlooker (metal mine)	651		
tyre fitter, pneumatic	659	underlooker (textile factory)	596		
tyre fitter, rubber	659	underman	377		
tyre fitter, solid	659	underman (signalling)	703		
tyre fitter, solid (rolling stock)	659	under-manager, assistant	041		
tyre gauge maker	278	under-manager, certificated	040		
tyre gawger	278	under-manager (coal mine)	040		
tyre hammerman	190	under-manager, colliery	040		
tyre healer (rolling stock)	278	under-manager (metal mine)	060		
tyre marker, india rubber (pneumatic, solid)	602	under master (mule spinning)	350		
tyre maker (pneumatic)	602	under narrow	954		
tyre maker, rubber	602	under-overlooker (textile)	702		
tyre maker (pneumatic, solid)	602	under overlooker (warehouse)	702		
tyre moulder	602	under passenger guard	388		
tyre moulder, cycle	602	under presser	173		
tyre moulder, india rubber	602	under roller	173		
tyre moulder, motor	602	under shunter	703		
tyre pressman	659	under signalman	704		
tyre repairer	608	under spinner	385		
tyre retreader	608	understand	885		
tyre roller	178	undertaker	928		
tyrer, wheel	190	undertaker's coachman	925		
tyre shaper	608	undertaker's shop assistant	925		
tyre shrinker	190	under-tender	398		
tyresmith	190	under-viewer	941		
tyre stamper	190	under-writer, assistant	793		
tyre tread cutter	608	underwriter	793		
tyre tread fitter	608	underwriter's agent	793		
tyre turner	608	underwriter's clerk	939		
tyre wire	608	unhaier (furn)	338		
tyre wiring machinist	608	unhaier (lantern)	338		
		unhaider (casks)	477		
		unhaider, spring	279		
		union room band	459		
		un adjuster	237		
ultramicros maker	143	universal cutter	237		
umbrella cutter	419	universal miller	237		
umbrella frame maker	419	universal winder	260		
umbrella jack biter	279	universally constable	985		
umbrella looper	429	utalisher	043		
umbrella maker	419	unloader, bar	279		
umbrella notcher	278	unloader, block	073		
umbrella rib bender	278	unloader (brick works or pottery)	119		
umbrella rib carver	278	unloader, coal (from vessel)	744		
umbrella rib finisher	278	unloader, coal (metal works)	279		
umbrella rib maker	278	unloader (docks)	745		
umbrella riveter	278	unloader, dockside	745		
umbrella springer	278	unloader, iron	279		
umbrella tip maker	278	unloader (metal trades)	279		
umple (cricket)	899	unloader, ore	119		
unappointed clerk	939				
unauthorised clerk	939				

	Code Number.		Code Number		Code Number.
van builder	475-6	vat dyer (textile)	361	vertical man (shipyard) ...	190
van driver	719	vat ereator	477	vertical miller	278
van driver, copper	720	vai hook	295	vertical plate furnace helper	270
van driver, delivery	719	vai knot	340	vertical spindle mauling	...
van driver, electric	720	vai maker	477	machines	482
van driver, mail (horse) ...	719	vatman (brewery)	459	vessel cleaner	105
van driver, mail (motor) ...	720	vai man (dyer's)	361	vessel maker (pottery) ...	105
van driver (motor)	720	vaiman, glue	158	vessel maker, sanitary ...	105
van driver, motor	720	vatman (glue, vice) ...	158	vessel man (steel manufac-	...
van driver, parcels	719	vatman, golden	448	tured)	278
van guard	723	vai man (gun cotton) ...	143	vest hand	404
van guerd, motor (moll) ...	723	vatman (paper mail) ...	512	vest machinist	404
van loader	729	vatumen, starch	445	vest maker	404
van loader, carrier's	729	vatman (vinegar)	445	vestment maker, church ...	278
van maker	475-6	vai runner	143	vice box cutter	278
van man	719	vai settler	149	vice box turner	278
van man, baker's	719	vattier	459	vice folder	428
van man, parcels	719	vasting foreman	451	vice forger	190
van man, railway parcels ...	719	vault keeper	540	vice hand	278
vanman (roundsmen)	719	veer	190	vice hand, axle box ...	279
vanman, ticket (tramways) ...	719	veecher	445	vice man	279
van minder	723	vegetable briner	449	vice man, body	279
valder	475-6	vegetable cook (hotel, &c.)	509	vice pin cutter	279
valder, free	475-6	vegetable cook (ship) ...	737	vice pin drill	279
van or wagon sheet repairer	418	vegetable dye extractor ...	143	vice pin turner	279
van painter	593	vegetable ivory artist ...	618	victualer, brewing	279
van proprietor	713	vegetable ivory cutter ...	618	victualer, licensed	279
van salesman	719	vegetable ivory engraver ...	618	victualing storekeeper ...	737
van setter (for driver)	729	vegetable ivory turner ...	612	victualing storekeeper (ship)	737
van setter (railway)	706	vegetable maid	900	victualing superintendent ...	737
van sheet dresser	418	vegetable presser	448	viewer, action (small arms)	278
van shunter	729	vegetable preserver	449	violin, ball bearing	278
van traveller	719	vehicle painter	593	violin, barrel	278
van washer	706	veiler (artificial leaves) ...	689	violin, bolts, pins, &c. ...	278
variable condenser holder ...	309	veiner (handkerchiefs) ...	428	violin, carriage	278
variety agent	881	veiner and marker (artificial	...	violin (cartridges)	143
variety agent's manager ...	881	leaves)	689	violin, chief	278
variety artiste	881	welded spoon scrouver ...	429	violin (clothing trades) ...	401
varnish brush	158	welted solder	429	violin (coal mine)	401
varnish brush maker	633	willam header	332	violin (cycles)	278
varnisher (bauxite ware,	...	vilium header	332	violin (electrical)	308
wecker furniture)	472	vilium carder	418	violin, fumes	401
varnisher (books and shoes)...	609	vilium cutter	409	violin, metal trades ...	401
varnisher, brush	639	volverner	410	violin, resident	401
varnisher (brushes)	639	volverner (felt hats) ...	410	violin (tobac)	278
varnisher, comb	399	volverner finisher, felt ...	410	violin of castings	278
varnisher (carriages, coaches,	...	vulture	410	violin's apprentice	401
&c.)	593	vulcan blower	410	violin brewer	448
varnisher, enamel	399	velvet blocker	399	violin graman	449
varnisher, clay tobacco pipe	119	velvet cutter	399	violin pump	449
varnisher, curry comb	278	velvet divider, silk	399	violin pumpman	449
varnisher (flee can)	358	velvet docteur	379	violin bow maker	448
varnisher, flee can	358	velvet dubber (fustian cut-	...	violin	896
varnisher, fuse	149	ting)	399	violoncelloist	896
varnisher, gear	399	velvet dryer	359	violoncello maker	449
varnisher, handle	599	velveteen cutter	399	viopane man	449
varnisher, havel	399	velvet ender	379	visible weighing machine	240
varnisher, head	399	velvet finisher	399	visor maker	143
varnisher, beddle	399	velvet machine man	379	visitng case maker	345
varnisher, bings	278	velvet mender	379	visitor, sick	793
varnisher, india rubber	608	velvet painter	383	vitroous enamel maker ...	143
varnisher (insulation)	304	velvet peazee	379	vitroous tile maker	706
varnisher, insulation	304	velvet pegging machine tenter	384	vitrol burner	143
varnisher (lead pencil making)	...	velvet scourer	380	vitrol man	143
varnisher (lithographic	...	velvet swinger	399	voacat, other	648
staining)	548	velvet tooler	359	voicer, flue (pipe organs)	648
varnisher (metal trades) ...	241	velvet treadler	394	voicer (piped organs, &c.)	648
varnisher (oil cloth, &c.) ...	639	velvet waxer	384	voicer, reed (reed organs, &c.)	648
varnisher, paper	548	vender (dealng)	776	voicer and tuner (reed organs,	...
varnisher, pattern	599	vender, new (street)	778	&c.)	648
varnisher (rasc cases)	559	vender, pea and pie	772	voic boy	949
varnisher, roed (textile) ...	608	vender, pig	775	voic chaser	959
varnisher, rubber	608	vender cutter	481	volimeter maker	309
varnisher (rubber goods) ...	599	vender dryer	498	vulcanized fibre machine	...
varnisher, shoe (gun)	599	venderer (hats)	409	vinger	559
varnisher, ticket	540	tuner maker	486	vulcanizer, cold	603
varnisher, wire mattress ...	540	tuner maker	498	vulcanizer, elastic	603
varnisher (wood or metal	...	venetian blind maker...	498	vulcanizer (endoring stamp)	...
goods)	599	venetian pavement maker	...	vulcaniser, hot air	603
varnish filler	158	(artificial stone)	080	vulcaniser, press	603
varnishing machine feeder	...	vestition pavement maker	...	vulcaniser, steam	603
(litho)	549	(moist)	571	vulcaniser and moulder ...	603
varnishing machine	599	vestitioning engineer ...	240	vulcanite cutter (pipe) ...	608
(tintplate)	599	ventilating engine man ...	950	vulcanite finisher	608
varnishing machine minder...	599	cent peg maker	499	vulcanite maker	622
varnish maker	158	ventriquant	885	vulcanite roofer	576
varnish maker, head	151	venderor	016	vulcanite roofing layer ...	576
varnish maker, printer's ...	151	verge maker	324	vulcanite rubber maker ...	600
varnish maker, spirit	153	veuger (lace carriage making)	205	vulcanite turner	600
varnish oil boiler	158	Veritas agent	793		
varnish packer	159	vernia destroyer	039		
varnish patier-up	159	vernicler	039		
varnish woman	241	vertical driller	200		
vat solder	477	vertical frame sawyer ...	481		
vat dyer, blue	385	vertical furnace heater ...	171		
vat dyer, indigo	381	vertical machine driller ...	200		
vat dyer (leather)	385	vertical man (metal trades)...	200		
				</	

	Code Number.		Code Number.		Code Number.
wad printer	149	wagon tipper (blast furnace)	278	ware brusher	118
wad squeezer	119	wagon tipper (metal mine)	056	ware cleaner	118
wagon cutter	449	wagonway man (coal mine)	043	ware grinder (logwood)	143
wafer machinist	433	wagonwayman (metal mine)	054	ware grinder (pottery)	118
wafer maker	433	wagon weighman	448	warehouse assistant	942
wafer mixer	433	wagon works labourer (rolling stock)	439	warehouse boy	942
wader seal maker	159	wagon wright	475-6	warehouse clerk	939
wago man (coal mine)	047	wagon wright (railway)	453	warehouse counter-off	940
wagon man, day	047	waider	048	warehouse foreman	940
wages clerk	323	waitcoat maker	474	warehouse girl	942
waggoner	323	waitcoat hand	404	warehouse hand	942
wagon and cattle pen cleaner	706	waitcoat mucker	404	warehouse hand, lace	335
wagon berthier	704	waist maker	429	warehouse keeper	940
wagon bolt maker	279	waist scourer	429	warehouse keeper, assistant	940
wagon boy (colliery)	048	waster (coal mine, above ground)	049	warehouse keeper (dock authority)	731
wagon boy, overhead (tram-ways)	729	waiter (coal mine, below ground)	047	warehouse labourer	942
wagon breaker	072	waiter (buffet, hotel, &c.)	816	warehouse loader (goods depot)	729
wagon brass filter	224	waiter (casual, private)	816	warehouse loader (railway)	706
wagon builder	475-6	waiter, commis.	916	warehouseman	940
wagon builder (railway)	453	waiter, day	916	warehouseman, assistant	940
wagon builder, railway	453	waiter (domestic)	916	warehouseman, barrel	118
wagon builder, timber	475-6	waiter, service	148	warehouseman, black (dirt glass)	135
wagon changer	794	waiter (ship)	737	warehouseman, bonded	940
wagon coupler	056	waiter (Stock Exchange)	043	warehouseman, brown	940
wagon distributor	704	waiter, stone	043	warehouseman, cake (oilcake)	940
wagon dresser	706	waiter, tide (slate shipping)	745	warehouseman, carrier's	940
wagon driver (metal mine)	054	waiter, wine	916	warehouseman, cloth	940
wagon driver, motor	719	waster-on (coal mine, above ground)	049	warehouseman, corn	940
wagon driver, overhead (horse)	720	waster-on (coal mine, below ground)	047	warehouseman, cotton	940
wagon driver, overhead (motor)	720	waiting room attendant	929	warehouseman, dealing	770
wagon driver, steam	721	waiting, room attendants, ladies'	828	warehouseman, glass	940
wagon driver, tower (horse)	719	waiting room attendant, ladies' (railway)	709	warehouseman, grain	940
wagon driver, tower (motor)	720	waiting room attendant, leading ladies'	709	warehouseman, grey	358
wagoner (coal mine)	043	waitress (buffet, hotel, &c.)	916	warehouseman, head (tannery or leather works)	331
wagoner (farm)	023	waitress, house	300	warehouseman, Italian	770
wagoner (metal mine)	054	waitress, housemaid	300	warehouseman, nickel	940
wagoner (not farm)	719	wale man (drifter)	600	warehouseman, pottery	940
wagoner	072	walker, bank (canals, water-works, &c.)	581	warehouseman, rag	940
wagoner (tube mill)	279	walker, do.	581	warehouseman (rough)	940
wagon erector (builder)	658	walker, plane	358	warehouseman, rough (brass)	940
wagon erector (fitter)	210	walker, professional	444	warehouseman, wood	940
wagoner's boy (farm)	023	walker-on	359	warehouseman's assistant	942
wagoner's boy (not farm)	723	walk flatter	102	warehouse porter	759
wagonette driver	711	walking ganger (pavist)	581	warehouse porter, dock	745
wagonette proprietor	711	walk line maker	373	warehouse roller	338
wagon examiner (railway)	658	walkman, aqueduct	099	warehouse sampler	738
wagon filler (coal mine, above ground)	049	walkman, conduit	099	warehouse sorter	338
wagon filler (coal mine, below ground)	042	walkman, reservoir	099	warehouse toppler	942
wagon filler (metal mine, above ground)	056	walkman, river	099	warehouse trucker	942
wagon filler (metal mine, below ground)	054	walker (coal mine)	099	warehouse unloader	942
wagon filter (pottery)	118	waller, dry	044	warehouse unloader (railway)	706
wagon filter	210	waller, dry feyge	372	warehouse worker	940
wagon filter, railway	210	waller, dry stone	372	warehouse worker, lat.	385
wagon greaser (cement, &c., works)	099	waller, fence	572	ware maker	105
wagon greaser (railway)	709	waller (mason)	572	ware maker, electrical	105
wagon hauler	054	waller, rubble	572	ware maker, acoustic	105
wagon inspector (coal mine)	041	waller (silk)	088	ware maker, sanitary	102
wagon inspector (railway)	700	waller, stone and fence	572	ware maker, silica	105
wagon inspector (railway works)	858	waller mason	572	ware maker, Tonbridge	473
wagon inspector (slate, stone, &c., quarry)	071	wall maker, concrete (bre-proof)	096	ware maker, wooden	436
wagon inspector, train	700	wall maker, fibre cement	096	ware room	941
wagon labeller	706	wallman	044	ware room, worker	365
wagon lid	043	wall miner	572	ware rubber	118
wagon lifter	279	wallpaper, band	047	ware selector	118
wagon loader (metal mine)	056	wallpaper, can	047	warmer, pipe	139
wagon loader, motor	706	wall planer and slotter	203	warmer, rivet	258
wagon loader (pottery)	119	wall slider and planer	203	warmer (rubber extruding)	609
wagon loader (tar macadam)	989	wallstone dresser	575	warmer-up (raw rubber)	608
wagon lowerer	704	wall tiler	571	warmer-up (rubber calendar-ting)	609
wagon maker	475-6	warden, barrack	921	warm trimmer	279
wagon maker, timber	475-6	warden (caretaker)	921	warp baller (not silk)	367
wagon maker, wood	475-6	warden, conduit (water works)	699	warp baller (silk)	371
wagon man (coal mine)	043	warden, garage	921	warp beamer	367
wagonman (statthoe)	744	warden (orphannage)	913	warp cleaner	399
wagon man (stone mine or quarry)	072	warden, range	989	warp cleaner	367
wagon painter (rolling stock)	593	warden, wood	016	warp dresser-in	365
wagon painter	056	warder (caretaker)	921	warp dresser, cotton	365
wagon repairer	652	warder (mason)	988	warp dresser (drawing and twisting-in)	368
wagon repairer, railway	652	warder, river	910	warp dresser (sizing, not wool)	369
wagon rider	744	wardmaid (hospital, &c.)	909	warp dresser (splitting)	370
wagon road man	043	wardrobe assistant	403	warp dresser (wool finishing)	384
wagon runner (blast furnace)	279	wardrobe dealer	960	warp dresser (wood sizing)	367
wagon runner (railway)	704	wardrobe keeper (schools)	473	warp dryer	396
wagon shifter	704	wardrobe maker	367	warp dyer	381
wagon shunter	704	wardrobe mistress	435	warper	367
wagon sorter	190	wardrobe woman			
wagon spring	704				
wagon spring smith	190				
wagon spring smith's striker	190				

Code Number.		Code Number.		Code Number.	
warper, ball	367	washer, ceiling	399	washer, shoddy	361
warper, beam	367	washer (celluloid)	143	washer, silk yarn	398
warper, chain	367	washer (celluloid sheet)	619	washer, (size)	159
warper, cloth	367	washer, cellulose acetate	143	washer, slack	649
warper, colour	367	washer (cement)	099	washer, small coils	089
warper, coloured	367	washer (chemical labourer)	149	washer, still	149
warper, elastic thread	367	washer, clay tobacco pipe	119	washer (staples)	074
warper, fancy hair	367	washer, cloth	399	washer, strainer (waterworks)	699
warper (flax and hemp)	367	washer, cloth bleaching	399	washer (tea lead)	279
warper, hair	367	washer, coal (coal mine)	049	washer (tinplate)	279
warper, hand	367	washer (coal mine)	099	washer, tramcar	129
warper, horse hair	367	washer, coal (rubber fuel)	089	washer (tramways)	729
warper (lace)	367	washer (coke oven)	119	washer, truck	729
warper, machine	367	washer, colour	149	washer, van	729
warper, mill	367	washer, crude glycerine salt	139	washer, van (railway)	709
warper, pattern	367	washer, drier	135	washer, waste	399
warper, piece	367	washer (distillery)	459	washer, white (tinplate)	279
warper, rubber	367	washer, door	029	washer, whitening	099
warper, section	367	washer, drum	729	washer (wool finishing)	334
warper (silk)	367	washer, drum (glycerine)	149	washer, wool (washer dressing)	399
warper, wool	367	washer, enery	099	washer (textile mill)	399
warper, yarn	367	washer, emulsion (photo- graphic)	149	washer, yarn (carpets)	399
warp finisher	367	washer, leather	632	washer and chiller, fat (fat ex- tracting and refining)	449
warp folder	367	washer (lithography)	339	washer and cleaner, rubber	699
warp hand (knitted fabric)	374	washer, felt	394	washer and tinter	327
warp hand (lace)	376	washer, filter cloth	449	washer attendant (gas works)	699
warp hand, silk	378	washer, fish curing	449	washer, engine man	699
warping boy (rope and twine)	399	washer, flock	391	washer man (gas works)	699
warping machine minder	367	washer, foreman	041	washer man (glue making)	159
warping minder	367	washer, fruit (jam making and fruit preserving)	449	washer man (grain mill)	432
warping overlooker	355	washer (fur and skin)	333	washer man (paper making)	519
warp lace maker	367	washer (gas works)	399	washer-off	394
warp loomer	398	washer, glass (photographic plates)	609	washer-out (bleaching)	399
warp loom knitter (artificial silk)	370	washer, glass (process en- graving)	549	washer-out, boiler	709
warp loom knitter (cloth)	398	washer (glass works)	139	washer-out (silver or plate)	299
warp mill attendant	367	washer, globe	279	washer pressman	149
warp picker (silk)	399	washer, glue	159	washer's attendant (sugar re- fining)	449
warp raker-in	399	washer, gold (jewellery)	239	washer-up (bookbinder's)	549
warp resher-in	399	washer (gold recovery)	149	washer-up (domestic)	929
warp size mixer	369	washer (gravel)	074	washer-up (sugar refining)	449
warp sizer	369	washer (hatter's)	339	washer-up (textile printing)	399
warp slasher	369	washer, hair (leather dressing)	399	washerwoman	339
warp slayer	369	washer, hair (textile mill)	919	washery foreman (coal mine)	641
warp splitter	367	washer, hand (laundry)	279	washery foreman (coke works)	699
warp spooler	369	washer, hand (metal works)	399	washery labourer	699
warp storer	399	washer, hand (textile mill)	399	washeryman (coal mine)	649
warp stretcher	369	washer, horsehair	399	washeryman (coke works)	699
warp taker-in	369	washer, india rubber (electric cables)	609	wash house engineer	244
warp tier (carpets)	369	washer, ink can	159	wash house foreman	919
warp tier-in	369	washer (lamp)	399	wash house man (chemicals)	449
warp twister	369	washer (laundry)	399	wash-house man (hotels)	529
warp winder	367	washer (leather)	339	wash-house man (laundry)	919
warp yarn baler	398	washer, line	549	wash house man (public wash- ing)	449
warp yarn polisher	398	washer, lorry	729	wash-houseman (silk washing)	391
warp yarn splitter	384	washer, meat	449	wash-house man (silk wash- ing)	399
warp yarn splitter (dyeing)	367	washer, metal (glass)	139	wash-house man (sugar re- fining)	449
warp yarn storer	399	washer (metalliferous mine or working)	056	wash-house man (wool)	361
wartress	919	washer, motor car	729	wash-house man, wool	391
warrenter (own account)	699	washer, oil	159	wash-house women (hotels)	529
warren holder	919	washer, oil pan	159	wash house woman (public wash house)	919
wash back man	449	washer, oranges	729	washing box man (patent fuel)	099
washboard maker	459	washer, ore	054	washing crystal maker	143
washer, anode	149	washer, ostrich feather	632	washing machine attendant (laundry)	919
washer (artificial silk)	143	washer, palm leaf (straw plait)	429	washing machine man (bleach- ing)	399
washer, bacon	449	washer, pan mill	219	washing machine man (finish- ing)	384
washer, bag (sugar refinery)	449	washer (paper mill)	549	washing machine minder (bleaching)	380
washer, balala	609	washer (paper staining)	329	washing machine minder (finishing)	394
washer, barrel (brewery)	459	washer, plate	970	washing maid maker	499
washer, barrel (paints and oil)	459	washer, pot	449	washing masher	641
washer (batteries plates)	302	washer, press cloth	399	washing-off machine minder	399
washer, bend	339	washer, print (carpets)	399	washing powder maker	159
washer, benzol	143	washer, print (textile bleach- ing)	399	washing room hand	527
washer, black (tinplate)	279	washer, printer's	527	washing soda maker	143
washer, blanket (textile print- ing)	399	washer, rag (munge and shoddy)	399	washing table attendant (mar- garine)	276
washer, blue	349	washer, rag (paper making)	519	washman (brass foundry)	449
washer, body (bath)	429	washer, roll	399	washman (coal mine)	649
washer, bottle	729	washer, roller (printing works)	549	wash man (laundry)	919
washer, bottle (glass works)	139	washer, roller (textile mill)	399	washer (tinplate)	279
washer, box (textile printer's)	399	washer (rubber)	699	wash mill attendant (artificial stone)	099
washer, brass	279	washer, rubber	699		
washer, breeze (blast furnace)	279	washer, sagger	107		
washer, breeze (coke works)	019	washer, salt (glycerine)	149		
washer, breeze (gas works)	699	washer, sand (glass)	139		
washer, brush (carpet sizing)	399	washer, sand (water works)	107		
washer (brushes, brooms)	639	washer, sagger	107		
washer, bundle	149				
washer, bulb (lamp)	319				
washer, cab	729				
washer, car	729				
washer, carriage	729				
washer, carriage (railway)	729				
washer, cart	729				
washer, cask	459				
washer, cathode	149				

Code Number.		Code Number.		Code Number.	
washmill attendant (cement) ...	089	watchman ...	963	waterproof paper maker ...	518
washmill cleaner (cement) ...	099	watchman, aqueduct ...	963	waterproof sticker ...	608
wash miller ...	099	watchman, coal spinner ...	963	water runner ...	741
wash-mill hand ...	099	watchman, cotton ...	963	waterwide baler ...	745
washmill man (bleach works) ...	380	watchman, crossing ...	704	waterwide foreman ...	740
wash-off cock attendant (sugar refining) ...	449	watchman, night (hydro) ...	917	waterwide porter ...	745
washstand maker ...	473	watchman, railway ...	963	water softener (paper mill) ...	749
wash-up boy ...	440	watch motioner ...	324	water softener (water works) ...	699
wash wheel man ...	380	watch movement maker ...	324	water softening plant attend-ant (electricity supply) ...	699
waste boy ...	399	watch repairer ...	323	water tender (canal) ...	749
waste breaker ...	362	watch screw maker ...	329	water track labourer ...	531
waste breaker, hand ...	362	water attendant (electricity supply) ...	699	water turner (at rolls) ...	698
waste bundler ...	399	water badger ...	054	water valve man ...	910
waste cleaner ...	362	water bailiff (dock official) ...	731	water wheel attendant ...	950
waste collector ...	399	water bailiff (dock watch-man) ...	749	water wheel driver ...	950
waste drier ...	362	water bailiff (paper mill) ...	518	waste maker ...	496
waste dresser (silk) ...	363	water bailiff (private fisheries) ...	910	wastewater maker ...	309
waste formman (waterworks) ...	682	water baler ...	047	waster ...	300
waste girl ...	393	water bad maker ...	606	waving machinist ...	159
waste house hand ...	399	water blow-up man (sugar refining) ...	449	wax bleacher ...	159
waste inspector (waterworks) ...	692	waterboat man ...	279	wax boiler (electric cables) ...	159
waterman (coal mine) ...	399	water boy (metal works) ...	279	wax doll maker ...	638
waterman (cotton room) ...	044	water boy (paper making) ...	519	wax engraver ...	526
waterman, master (colliery) ...	041	water boy (sugar refining) ...	449	waxer (artificial flowers) ...	689
waterman (metal mine) ...	051	water can maker ...	264	waxer (glassware) ...	324
waterman (wool) ...	399	water carrier ...	719	waxer (leather dressing) ...	556
water meter inspector (water works) ...	692	water-cart driver (horse) ...	719	waxer, stencil paper ...	556
waste opener (textile) ...	362	water-cart driver, motor ...	720	waxer (typing paper) ...	556
waste packer ...	399	water clerk ...	720	waxer (typing stencil papers) ...	556
waste paper baler ...	349	water course man (coal mine, below ground) ...	049	waxer, velvet ...	384
waste paper sorter ...	519	watercourse man (coal mine, above ground) ...	049	waxer, velvet, furian finish-ing) ...	384
waste picker ...	399	watercourse man (coal mine, below ground) ...	049	wax figure cleaner ...	638
waste piece (wadding mill) ...	363	watercress cultivator ...	019	wax figure maker ...	638
waste puller (press cloth) ...	399	watercress cutter ...	035	wax modeller ...	638
water ...	143	watercress gatherer ...	035	wax moulder (electro) ...	524
waste remover ...	399	watercress grower ...	035	wax pressman (candles) ...	159
waste ripper ...	399	watercress labourer ...	039	wax printer (dye's, bleacher's) ...	398
waste rubber grinder ...	600	water dog ...	279	wax refiner (candles) ...	159
waste shaker (fax, hemp) ...	362	water engineer, hot ...	240	wax refiner (paraffin) ...	143
waste sorter, cotton ...	364	water engineer (water works) ...	690	wax taper, cutter ...	159
waste sorter (paper making) ...	519	waterer (blast furnace) ...	119	wax taper maker ...	159
waste sorter (textile mill) ...	399	waterer, clay ...	749	wax thresher ...	414
waste sorter (tin boxes) ...	279	waterer, coal (at stables) ...	047	wax vesta maker ...	149
waste sorter, woollen ...	964	waterer (coal mine) ...	047	wax vial cleaner ...	044
waste superintendent (water-works) ...	692	waterer, road ...	399	way man, foreman ...	561
waste washer ...	399	waterer (silk) ...	399	wayman (shipwright) ...	560
waste water inspector ...	692	waterer (textile fishing) ...	399	waywarden ...	258
waste wood sorter ...	498	water filter, hot ...	249	weather-down (sails) ...	238
waste worker ...	044	water filter (plumber) ...	253	weather-up (sails) ...	238
watch and clock adjuster ...	323	water filter's mate ...	253	weather-dresser ...	448
watch and clock cleaner ...	323	water gas climber ...	699	weatherer, clay ...	119
watch and clock jobber ...	323	water gas driver ...	699	weather hat maker ...	419
watch and clock maker ...	923	water gas fireman ...	692	weather ...	370
watch and clock material maker ...	324	water gas foreman ...	692	weather, alpaca ...	370
watch and clock repairer ...	323	water gas ganger ...	692	weather, asbestos ...	370
watch case maker ...	323	water gas maker ...	692	weather, automobile loom ...	370
watch chain maker (gold and silver) ...	284	water gas maker's assistant ...	692	weather, blanket ...	370
watch chain maker (not gold or silver) ...	293	water gas operator ...	692	weather, box loom ...	370
watch cleaner ...	323	water inspector ...	692	weather, braid ...	370
watcher (a watchman) ...	963	water inspector, waste ...	692	weather, breeder ...	380
watcher, back ...	363	water keeper ...	910	weather (case) ...	472
watcher, battery ...	066	water ladder ...	047	weather, case ...	472
watcher, back ...	910	water leader (coal mine) ...	047	weather, carpet (hand loom) ...	370
watcher (cotton) ...	925	water leader (metal mine) ...	047	weather, carriage trimming ...	370
watcher, cow ...	922	waterman (beaman) ...	738	weather, chenille setting ...	370
watcher, dye vat ...	429	waterman (coal mine) ...	047	weather, chenille welt ...	370
watcher, fish ...	910	waterman (coke oven) ...	089	weather, cloth ...	269
watcher, furnace ...	171	waterman, collier's ...	738	weather, coach lace ...	370
watcher (nickel) ...	171	waterman (gas works) ...	699	weather, cocoa fibre mat ...	370
watcher, nickel ...	171	waterman (metal mine) ...	056	weather, dog mat ...	370
watcher (radio-telegraphic) ...	910	waterman (paper making) ...	519	weather, doily ...	370
watcher, river ...	910	waterman (sewage farm) ...	741	weather, dress goods ...	370
watcher (silk finishing) ...	384	waterman (stables) ...	699	weather, embroidery ...	370
watcher, slag (steel manufac-ture) ...	278	waterman (water works) ...	699	weather, felt ...	370
watcher, stamp ...	056	water mangleman ...	384	weather, gold ...	370
watcher (steel manufacture) ...	278	water mangle (bleacher's) ...	384	weather, gold and silver ...	370
watcher, stencil ...	943	water mangle (textile finish-ing) ...	384	weather, gold and silver lace or braid ...	370
watcher, table ...	056	water mangle (textile finish-ing) ...	384	weather, hair (braid) ...	370
watcher, table ...	056	water mangle (textile finish-ing) ...	384	weather, hair (braid) ...	370
watcher, wire ...	154	water mangle (textile finish-ing) ...	384	weather, hair setting ...	370
watch glass maker ...	138	water mangle (textile finish-ing) ...	384	weather, hair sleeves ...	370
watch hand maker ...	324	water mangle (textile finish-ing) ...	384	weather, hair (wig making) ...	426
watch-house keeper ...	962	water mangle (textile finish-ing) ...	384	weather, halter ...	370
watch jeweller ...	324	water mangle (textile finish-ing) ...	384	weather, hand loom (carpets) ...	370
watch jobber ...	323	water mangle (textile finish-ing) ...	384	weather, hand loom (cloth) ...	388
watch key maker ...	254	water mangle (textile finish-ing) ...	384	weather, hand machine ...	370
watch maker ...	323	water mangle (textile finish-ing) ...	384	weather, harden ...	370
watchmaker (dialing) ...	770	water mangle (textile finish-ing) ...	384	weather, hardening ...	370
watchmaker and jeweller (dial-ing) ...	770	water mangle (textile finish-ing) ...	384	weather, harness loom ...	370
watch maker and repairer ...	323	water mangle (textile finish-ing) ...	384	weather, headstall ...	970

	Code Number.		Code Number.		Code Number.
weaver, human ...	370	weighbridge man (stone mine or quarry) ...	772	weaver, twist ...	399
weaver, horse hair ...	370	weighbridge porter ...	706	weaver (weathouse) ...	942
weaver, horse hair seating ...	370	weigh clerk (coal wharf) ...	839	weaver, wool ...	399
weaver, horse pipe ...	370	weigh clerk, coal wharf ...	839	weaver, yarn (for winder) ...	399
weaver, table ...	370	weigh clerk (colliery) ...	048	weaver and feeder (cotton) ...	362
weaver, jacquard ...	370	weigh end lad ...	043	weaver and wrapper, golf ball ...	948
weaver, loom ...	370	weaver, acetone ...	148	weaver at pit bank ...	046
weaver, mat (cocoa fibre, coir) ...	370	weaver (bakery) ...	489	weaver-in, wool ...	399
weaver, net ...	398	weaver, ball set (jute) ...	399	weaverman (card and paste- board) ...	519
weaver, Northrop ...	370	weaver, hank ...	056	weaver-off (wire works) ...	273
weaver, orris ...	370	weaver, bar ...	279	weaver-off, wool ...	399
weaver (other) ...	472	weaver (basket making) ...	449	weaver-on, wool ...	399
weaver, parlings and tag- ging ...	370	weaver, blankets ...	279	weaver-off (silk) ...	278
weaver, pattern ...	370	weaver (blast furnace) ...	399	weaver-out, wool ...	399
weaver, power ...	370	weaver, bobbin (carpet making factory) ...	279	weaver-out, yarn ...	399
weaver, power loom ...	370	weaver, coke ...	159	weaver-up (serews) ...	279
weaver, power machine (fin- ishing) ...	398	weaver, charge (blast furnace)	278	weight house clerk, colliery ...	048
weaver, range ...	370	weaver, charge (gun-cotton)	143	weighing clerk ...	399
weaver (rod) ...	370	weaver, check (colliery) ...	043	weighing machine adjuster ...	260
weaver, rug ...	370	weaver, check (dock) ...	148	weighing machine cleaner and balancer ...	260
weaver (silk) ...	472	weaver (chemicals) ...	399	weighing machine erector ...	260
weaver, silk ...	472	weaver, cloth ...	399	weighing machine fitter, dial ...	260
weaver, scroll ...	370	weaver, coal truck (patent iron) ...	089	weighing machine fitter, dial ...	260
weaver, semi-power machine ...	398	weaver, coke ...	279	weighing machine fitter, dial ...	260
weaver, setting ...	370	weaver, collier's ...	043	weighing machine inspector (colliery) ...	041
weaver, silver ...	370	weaver (colliery) ...	043	weighing machine inspector (railway) ...	709
weaver, silver lace or braid ...	370	weaver (commercial) ...	783	weighing machine keeper ...	260
weaver, spring mattress ...	269	weaver, cotton (explosive) ...	148	weighing machine maker, ... automatic ...	260
weaver, tassal ...	370	weaver, cut ...	399	weighing machine maker, dial ...	260
weaver, tin ...	370	weaver, detonator ...	143	weighing machine maker, ... visible ...	260
weaver (twig) ...	472	weaver, districts across luggage ...	709	weighing machine man (coal mine) ...	048
weaver, twill ...	370	weaver (docks) ...	749	weighing machine man (metal trades) ...	279
weaver, web ...	370	weaver, dollup ...	399	weighing machine repairer ...	260
weaver (willow) ...	472	weaver, drop ...	069	weighing machine smith ...	048
weaver (wire) ...	269	weaver, engine ...	399	weighing machine tester ...	260
weaver, wire ...	269	weaver, excess luggage ...	278	weigh lad ...	056
weaver, wire mattress ...	269	weaver (felt hats) ...	428	weighman, alum ...	349
weaver (withy) ...	472	weaver (flax and hemp) ...	399	weighman, borrow ...	279
weaver's assistant ...	370	weaver, flyer ...	278	weighman (cement) ...	099
weaver's filler ...	370	weaver, fuel (patent fuel) ...	099	weighman, check (coal mine)	042
weaver's filler, scroll ...	399	weaver, furnace ...	279	weighman, check (dock) ...	748
weaver's harness maker and finisher ...	210	weaver, gas works ...	889	weighman, collier's ...	048
weaver's helper ...	370	weaver, grain (docks) ...	749	weighman (colliery) ...	048
weaver's tender ...	370	weaver, grain (elevators) ...	440	weighman (docks) ...	749
weaving master ...	356	weaver (grain milling) ...	880	weighman, general (puddling)	279
weaving mistress ...	356	weaver, heat ...	283	weighman, hoist ...	048
weaving overlooker ...	356	weaver, hot metal (blast furnace) ...	399	weighman, hoist (puddling) ...	279
webber ...	429	weaver, India rubber ...	609	weighman, iron ore ...	279
web girth maker ...	344	weaver, ingot (iron and steel rolling) ...	279	weighman, master's ...	048
web picker ...	379	weaver, jute ...	749	weighman (metal mine) ...	056
wedge fitter (railway signals) ...	210	weaver, lace ...	399	weighman (metal trades) ...	279
wedge maker ...	190	weaver, luggage ...	399	weighman, mineral ...	706
wedger (clay) ...	104	weaver, machine ...	399	weighman (railway) ...	706
wedger, clay ...	104	weaver (manure works) ...	399	weighman (stone mine or quarry) ...	672
wedger (metal mine) ...	054	weaver, metal ...	279	weighman, wagon ...	048
wedger, wheel ...	043	weaver (metal trades) ...	279	weighman, wool ...	399
wedge roller ...	178	weaver, mine (blast furnace)	279	weighman at coal staites ...	749
weeder ...	324	weaver, mineral ...	279	weighman-to-mill (cement)	089
weed gateman (water works) ...	689	weaver, nickel ...	279	weighman's assistant ...	043
weft boy ...	399	weaver, nitro-cotton ...	149	weigh office clerk ...	539
weft carrier ...	399	weaver, piece ...	279	weight adjuster ...	260
weft collarman ...	398	weaver, pig (blast furnace) ...	279	weight master, brass ...	180
weft damper ...	398	weaver, pig iron ...	279	weight master, brass ...	274
weft dresser ...	399	weaver, pig (puddling fur- nace) ...	279	weight maker, brass ...	224
weft distributor ...	399	weaver, pitch (patent fuel) ...	099	weightman ...	048
weft fork maker ...	278	weaver, pitwood ...	749	weight minder ...	041
weft gatherer ...	399	weaver, pulp ...	149	weight minder ...	041
weft girl ...	399	weaver, rail ...	279	weight minder ...	041
weft lad ...	399	weaver (railway) ...	709	weight minder ...	041
weft man ...	399	weaver (rubber) ...	609	weight minder ...	041
weft pinner ...	367	weaver, rubber ...	609	weight minder ...	041
weft room man ...	399	weaver, rubber ...	609	weight minder ...	041
weft sorter ...	399	weaver (massage) ...	449	weight minder ...	041
weft weaver ...	370	weaver, set (cotton) ...	399	weight minder ...	041
weft weaver, chanilla ...	370	weaver, set (flax and hemp)	399	weight minder ...	041
weft weaver ...	398	weaver, sheet mill ...	279	weight minder ...	041
weft winder ...	367	weaver, silk ...	399	weight minder ...	041
weft winder, black ...	367	weaver (silk waste) ...	399	weight minder ...	041
weft winder, white ...	367	weaver (silk waste) ...	399	weight minder ...	041
weigh beam maker ...	269	weaver (silk waste) ...	399	weight minder ...	041
weigh box minder (wool) ...	353	weaver (silk waste) ...	399	weight minder ...	041
weighbridge attendant ...	034	weaver (silk waste) ...	399	weight minder ...	041
weighbridge clerk ...	939	weaver (silk waste) ...	399	weight minder ...	041
weighbridge erector ...	260	weaver (silk waste) ...	399	weight minder ...	041
weighbridge fitter ...	260	weaver (silk waste) ...	399	weight minder ...	041
weighbridge maker ...	260	weaver (silk waste) ...	399	weight minder ...	041
weighbridge man (docks) ...	749	weaver (silk waste) ...	399	weight minder ...	041
weighbridge man (gas works) ...	689	weaver (silk waste) ...	399	weight minder ...	041
weighbridge man (metal mine)	056	weaver (silk waste) ...	399	weight minder ...	041
weighbridge man (railway) ...	706	weaver (silk waste) ...	399	weight minder ...	041
weighbridge man (stone mine or quarry) ...	672	weaver (silk waste) ...	399	weight minder ...	041

	Code Number.		Code Number.		Code Number.
welder, oxy-acetylene ...	249	wet wheeler (tinplate) ...	279	wheeler, cinder (puddling furnace) ...	279
welder (oxy-acetylene, electric) ...	249	wet wheeler (tinplate) ...	279	wheeler, clay (blast furnace) ...	279
welder, oxygen ...	249	whalebone cutter ...	618	wheeler, clay (patent fuel, etc.) ...	279
welder, pipe ...	190	whalebone splitter ...	618	wheeler, cloth ...	399
welder, pos ...	190	whalebone worker ...	618	wheeler, coach ...	475-6
welder, rail ...	249	whaler, hieary ...	374	wheeler, coal and ash ...	279
welder, rim (acetylene, etc.) ...	249	whannel fisherman ...	000	wheeler, coal (chemical works) ...	149
welder, rim (forge) ...	190	wharfage checker ...	749	wheeler, coal (gas works, electric supply) ...	699
welder, side ...	190	wharf agent ...	732	wheeler, coal (metal works, etc.) ...	279
welder, socket ...	190	wharfage machinist ...	529	wheeler, coal (patent fuel, etc.) ...	279
welder, spell ...	249	wharf foreman ...	749	wheeler, coke (blast furnace) ...	279
welder, spot ...	249	wharf foreman, colliery ...	749	wheeler, coke (chain and anchor forging) ...	279
welder, T-ling ...	190	wharfing ...	732	wheeler, coke (gas works) ...	699
welder (tube making) ...	249	wharfing, coal ...	732	wheeler, cold roll (iron and steel rolling, tinplate) ...	279
welder, tube (tube fixing) ...	249	wharfing, cement ...	099	wheeler, colliery ...	343
welder, tube (tube making) ...	249	wharf man, coal ...	570	wheeler, colour (leather dressing) ...	338
welder, wheel (acetylene, etc.) ...	249	wharf manager ...	732	wheeler, colour (textile printer's) ...	399
welder, wheel (forge) ...	190	wharf manager, coal ...	241	wheeler, contractor's labourer ...	581
welder, wheel rim ...	249	wharf scraper ...	241	wheeler, crest ...	119
welder, wire ...	249	wharfing make ...	473	wheeler, crop ...	279
welder and cutter (acetylene electric) ...	249	wharfing, grain milling ...	449	wheeler, cullet ...	139
welder and cutter, acetylene ...	249	wheel and axle moulder ...	279	wheeler, cut ...	399
welder and cutter, electric ...	249	wheel axle turner ...	200	wheeler, dish cover ...	279
welder and fanger, boiler ...	190	wheelbarrow builder ...	474	wheeler, dust mill ...	119
welder-on, fange ...	190	wheelbarrow letter ...	729	wheeler, edge fudge ...	429
Welding recovery process man ...	143	wheelbarrow maker ...	474	wheeler, emery (foundry) ...	237
Welding's plant man ...	143	wheelbarrow proprietor ...	729	wheeler, emery (hides and skins) ...	334
welt borer ...	580	wheelbarrow repairer ...	474	wheeler, emery (poets) ...	336
welt borer's labourer ...	581	wheel blocker ...	475-6	wheeler, engine (locomotives) ...	279
welt drill ...	580	wheel blocker and setter (rail-ways coach) ...	279	wheeler, fettling (puddling furnace) ...	279
welt drill's helper ...	581	wheel boiler ...	279	wheeler, frit ...	139
welt (tubes) ...	279	wheel boss maker ...	180	wheeler, fudge ...	429
wetting hand ...	419	wheel boy (clay, mud pit) ...	074	wheeler, grog ...	119
wet machinery erector ...	210	wheel boy (rope making) ...	399	wheeler, heel ...	429
wetman (brine wells) ...	079	wheel builder, cycle ...	278	wheeler, heel seat ...	429
wetman (fishing boat) ...	079	wheel builder (cycles) ...	278	wheeler (hides and skins) ...	334
wetman, oil wells ...	079	wheel builder (perambulator) ...	278	wheeler, liquor ...	399
wet man (patent fuel) ...	099	wheel builder (wood) ...	475-6	wheeler, loam ...	183
wet tanker ...	580	wheel centre dresser ...	279	wheeler, loam (general labourer) ...	183
wet tanker, artisan ...	580	wheel centre maker ...	190	wheeler, metal ...	279
wet tanker's labourer ...	581	wheel chair maker ...	475-6	wheeler, mine ...	279
welt beater ...	414	wheel chair painter ...	293	wheeler, nail ...	139
welder (boots) ...	414	wheel chair proprietor ...	729	wheeler, nickel copola slag ...	279
welder, boots ...	414	wheel changer ...	354	wheeler, net coal ...	099
welder, gloves ...	414	wheel cutter (walrus, clocks, etc.) ...	324	wheeler, ore ...	099
welder (gloves) ...	414	wheel cutter (cycles) ...	290	wheeler, patent fuel ...	334
welder (hoes), etc. ...	414	wheel disc examiner (rolling mill) ...	278	wheeler (pelt) ...	099
welder (leather goods) ...	346	wheel disc finisher ...	200	wheeler, pick ...	099
welder, paper ...	530	wheel disc heater ...	171	wheeler, pig ...	279
welding machinist ...	419	wheel disc presser ...	190	wheeler, pig iron ...	279
welt machine operator ...	414	wheel dresser ...	278	wheeler, pitch ...	099
welt preparer ...	414	wheel driver ...	278	wheeler, rail ...	279
welt sewer ...	414	wheel dropper ...	278	wheeler, sand ...	183
welt skiver ...	414	wheel drummer ...	190	wheeler, sand (foundry) ...	279
welt wheeler ...	736	wheeler ...	278	wheeler, sand (glass) ...	279
western man ...	736	wheeler, ash ...	079	wheeler, sand (metal works) ...	279
West India broker ...	771	wheeler, ash (chemicals) ...	149	wheeler, sand (metal works) ...	279
Westinghouse brake fitter ...	210	wheeler, ash (coal mine) ...	049	wheeler, scrap ...	279
Westinghouse brake repairer ...	244	wheeler, ash (coke works) ...	069	wheeler, set ...	399
Westmorland slater ...	570	wheeler, ash (gas, electricity and waterworks) ...	699	wheeler, shank or plate ...	279
wet and dry tester (ship-building) ...	273	wheeler, ashes ...	570	wheeler, shoe ...	079
wet boarder (hoes) ...	364	wheeler, ash (metal works) ...	099	wheeler, slag ...	279
wet char elevator attendant ...	449	wheeler, ash (metal works) ...	099	wheeler, spigot ...	279
wet char man (lamp refining) ...	918	wheeler, ash (metal works) ...	099	wheeler, stitch ...	429
wet cleaner ...	477	wheeler, ash (metal works) ...	099	wheeler, stone (foundry) ...	279
wet cooper ...	942	wheeler, ash (metal works) ...	099	wheeler, tap (blast furnace) ...	279
wet counterman ...	942	wheeler, ash (metal works) ...	099	wheeler (textile mill) ...	399
wet cutter ...	384	wheeler, ash (metal works) ...	099	wheeler (vegetable oil) ...	429
wet doukier ...	386	wheeler, ash (metal works) ...	099	wheeler, wet ...	429
wet end boy ...	519	wheeler, ash (metal works) ...	099	wheeler, wet (boots) ...	429
wet gas meter fitter ...	210	wheeler, ash (metal works) ...	099	wheeler, wet (leather dressing) ...	338
wet gas meter maker ...	254	wheeler, ash (metal works) ...	099	wheeler, wet (tinplate) ...	279
wet grinder ...	382	wheeler, ash (metal works) ...	099	wheeler, white ash ...	149
wet hachler, horsehair ...	090	wheeler, ash (metal works) ...	099	wheeler, work ...	279
wet miller ...	140	wheeler, ash (metal works) ...	099	wheeler and piler ...	279
wet mixer ...	900	wheeler, ash (metal works) ...	099	wheeler and stacker ...	459
wet muree ...	519	wheeler, ash (metal works) ...	099	wheeler-in (tinplate) ...	119
wet picker ...	519	wheeler, ash (metal works) ...	099	wheeler-in (rolling mill) ...	279
wet presser ...	518	wheeler, ash (metal works) ...	099	wheeler-in (chemical works) ...	149
wet process furnaceman (copper) ...	171	wheeler, ash (metal works) ...	099	wheeler-out (pottery, brick works) ...	119
wet spinner man ...	602	wheeler, ash (metal works) ...	099	wheeler-out, beam ...	399
wet spinner ...	385	wheeler, ash (metal works) ...	099		
wet spinner (flax or hemp) ...	385	wheeler, ash (metal works) ...	099		
wetter, bobbin ...	399	wheeler, ash (metal works) ...	099		
wetter (boots) ...	429	wheeler, ash (metal works) ...	099		
wetter (grey cloth) ...	399	wheeler, ash (metal works) ...	099		
wetter, leaf ...	448	wheeler, ash (metal works) ...	099		
wetter (printer's) ...	530	wheeler, ash (metal works) ...	099		
wetter (textile finishing) ...	384	wheeler, ash (metal works) ...	099		
wetter-in ...	338	wheeler, ash (metal works) ...	099		
wetter-out ...	139	wheeler, ash (metal works) ...	099		
wetter-out (esp. dyeing) ...	390	wheeler, ash (metal works) ...	099		
wetter-out (silk) ...	304	wheeler, ash (metal works) ...	099		
wet wheeler (boots) ...	429	wheeler, ash (metal works) ...	099		
wet wheeler (leather dressing) ...	338	wheeler, ash (metal works) ...	099		

	Code Number.		Code Number.		Code Number.
wheeler-out, bobbin	399	whimsayer	362	whetter, hinds	237
wheeler-out, cloth	399	whinstone dyker	572	whetter, cutlery	237
wheeler-out, colour	399	whinstone quarrier	572	whetter, razor	237
wheeler-out, cut	399	whip brazier	688	whetter, scissors	237
wheeler-out (glass)	399	whip comb maker	688	whetter, shears	237
wheeler-out, liquor	399	whip finisher	688	whetter, tool	237
wheeler-out, net	399	whip handle coverer	340	whetter's wiper	279
wheeler-out (textile mill)	399	whip handle cutter	340	whiff maker	468
wheeler's labourer	499	whip maker	688	whim driver	056
wheeler-to-kiln	119	whip monster	276	whinerman, naphthalene	149
wheel examiner (railway)	703	whipper, cable	319	wholesale butcher	270
wheel examiner (railway wagon works)	276	whipper, coal	744	wholesale dealer	270
wheel fitter	210	whipper, dog (metal mine)	054	wholesale representative	773
wheel fitter, free	190	whipper, dog (metal mine— foreman)	051	whosier	358
wheel glazer (metal)	190	whipper, stage (coal mine)	043	wicker (night lights)	190
wheel glazier (wood)	475-6	whipper (stitcher)	419	wicker body maker (for sea- nettes, perambulators, &c.)	472
wheel heater	171	whipper-in (be hunt)	899	wicker coffin maker	472
wheel heaver-out	279	whipping girl	419	wicker flask chasing maker	472
wheel hooper	276	whip sawyer	481	wicker furniture maker	472
wheel hub borer	208	whip stocker	688	wicker scuttle maker	472
wheel hub drillor	208	whip thong maker	348	wicker tray maker	472
wheel hub taper	230	whip (to hunt)	899	wicker truck maker	472
wheel hub turner	208	whirl scraper	200	wicker wicker	472
wheel hub worker	208	whisk broom, hand	633	wick preparer	158
wheel labourer	279	whisker, scum	435	wide borer (tobacco pipes, not clay)	608
wheel lacer and drillor	276	whisket maker	472	widow's cap maker	408
wheel lacer (cycles)	276	whisk maker	633	widow's milliner	408
wheel lad	043	whisk pan hand	633	wig block maker	498
wheel loader	279	white ash finisher	143	wigger, doll	688
wheel maker, abradant	088	white ash wheeler	148	wig maker	428
wheel maker, bassonette	276	whitebait fisherman	000	wig mounter	428
wheel maker (cycles)	276	white bed man	149	willager	362
wheel maker, emery	088	white bed stripper	279	willager, rag	362
wheel maker, perambulator	276	white brazier	384	willey girl	362
wheel maker (perambulators, &c.)	276	white cloth finisher (linen)	941	willeyman	362
wheel maker (railway coach, &c.)	475-6	white cloth man	477	willey tooth maker	276
wheel maker (watches and clocks)	324	white cooper	398	willar	362
wheel maker (wood)	475-6	white dryer	118	wilow box maker	472
wheel maker's labourer	279	white glass worker	143	wilow hatter's	498
wheel man (colliery)	043	white glycerine maker	143	wilow cutter	039
wheelman (steel tyres)	190	white lead carbonizing man	143	wilowar	362
wheel man, wash	369	white lead digester man	146	wilowar, chair	472
wheel minder (colliery)	043	white lead filter press man	149	wilowar (cotton waste)	362
wheel minder, dash	363	white lead grinder	148	wilowar, gun cotton	149
wheel minder, motion	363	white lead maker	143	wilowar (paper making)	518
wheel minder (wool spinning)	363	white lead oxide pot man	149	wilowar, wood pulp (paper making)	518
wheel moulder	279	white lead stoveman	386	wilowar (wool)	362
wheel packer	279	white mangle (bleaching)	384	wilowar (wool)	362
wheel painter	279	white mangle (textile finish- ing)	384	wilowar (wool)	362
wheel palmer	279	white mender	379	wilowar (wool)	362
wheel parer	279	white metallor	279	wilowar (wool)	362
wheel presser	276	white metal plater	257	wilowar (wool)	362
wheel press operator	193	white metal smith	257	wilowar (wool)	362
wheel rim bender	276	white metal worker	257	wilowar (wool)	362
wheel rim drillor	208	whitener (decorator)	599	wilowar (wool)	362
wheel rim roller	249	whitener (furniture)	599	wilowar (wool)	362
wheel rim welder	279	whitener (leather)	334	wilowar (wool)	362
wheel rim worker	176	whitener, moulding (furni- ture)	599	wilowar (wool)	362
wheel roller	200	whitener (pins)	279	wilowar (wool)	362
wheel scraper	190	whitener-up (furniture)	599	wilowar (wool)	362
wheel smith	190	white pickler	396	wilowar (wool)	362
wheel smith, iron	190	white piece borer	396	wilowar (wool)	362
wheel spoke bender	190	white piece dryer	396	wilowar (wool)	362
wheel stanger	190	white piece opener	396	wilowar (wool)	362
wheel taper	200	white piece stover	396	wilowar (wool)	362
wheel taper and holder	200	white room man	399	wilowar (wool)	362
wheel taper	200	white room man (foreman)	359	wilowar (wool)	362
wheel toppler	200	white room man (textile mak- ing-up)	943	wilowar (wool)	362
wheel trander	276	white room stitcher	419	wilowar (wool)	362
wheel traser, cycle	276	whitewash	264	wilowar (wool)	362
wheel traser (cycles)	276	whitewash (coal mine)	047	wilowar (wool)	362
wheel traser (perambulators, &c.)	276	whitewasher (painter's, &c.)	599	wilowar (wool)	362
wheel traser-up (perambula- tors, &c.)	276	white washer (template)	279	wilowar (wool)	362
wheel turner	200	whitewash hand	633	wilowar (wool)	362
wheel turner, fly	237	white weft winder	367	wilowar (wool)	362
wheel turner (grinder)	119	whitewood maker	473	wilowar (wool)	362
wheel turner (pottery)	190	whiting ball maker	099	wilowar (wool)	362
wheel tyer	043	whiting block maker	099	wilowar (wool)	362
wheel welder	249	whiting dabbler	099	wilowar (wool)	362
wheel welder (forge)	190	whiting filler	099	wilowar (wool)	362
wheel winder, hand	367	whiting furnace man	099	wilowar (wool)	362
wheel worker, emery (cycles)	237	whiting loader	099	wilowar (wool)	362
wheel worker, loop	374	whiting maker	099	wilowar (wool)	362
wheelwright	475-6	whiting mill man	099	wilowar (wool)	362
wheelwright's painter	593	whiting moulder	099	wilowar (wool)	362
whisker	119	whiting packer	099	wilowar (wool)	362
wherry driver	719	whiting powder miller	099	wilowar (wool)	362
wherry driver, motor	720	whiting washer	099	wilowar (wool)	362
wherryman (carman)	719	whiting worker	099	wilowar (wool)	362
wherryman (sailing barge)	738	whitisher	380	wilowar (wool)	362
wherryman cutter	575	whitisher	380	wilowar (wool)	362
whinstone maker	575	whitisher (celluloid)	149	wilowar (wool)	362
whinstone	237	whizner (textile)	398	wilowar (wool)	362

	Code Number.
winder, clearing frame	367
winder, clock	368
winder, cloth	339
winder, coil	303
winder, coil yarn	367
winder, coloured (yarn)	367
winder, cone (not silk)	367
winder, cone (silk)	371
winder, cop (not silk)	367
winder, cop (silk)	371
winder, copper	319
winder, cotton (cables and electric wire)	319
winder, cotton (textile mill)	367
winder, doubling (not silk)	367
winder, doubling (silk)	371
winder, drum	367
winder, dynamo	303
winder, elastic rubber	608
winder, elastic thread	367
winder, engine (mine or quarry)	360
winder, engine (silk)	371
winder, field coil	303
winder, field magnet	303
winder, filament	318
winder, flax	367
winder, fold	367
winder, frame	527
winder, gas	388
winder, gimp	943
winder, gold ball band	608
winder, golf ball machine	608
winder, gun wire	278
winder, hand	367
winder, hand wheel	367
winder, bank (not silk)	367
winder, bank (silk)	371
winder, induction motor	303
winder, Jumbo	367
winder, jute (electric cables)	319
winder, jute (textile mill)	367
winder, Lelton	367
winder, lin	367
winder, lines (flax)	367
winder, lustre (silk)	367
winder, machine	319
winder, magnet	303
winder, magneto	303
winder, magneto armature	303
winder, mesh	333
winder, millinery wire	429
winder (mine or quarry)	360
winder, mohair	367
winder, mottle	279
winder, needle (wire weaving)	367
winder (not silk)	367
winder, pan (glass)	139
winder (paper making)	518
winder (paper staining)	549
winder, patent	367
winder, pin (not silk)	367
winder, pin (silk)	371
winder, pins (not silk)	367
winder, pins (silk)	371
winder, pling	367
winder, polisher	393
winder, print	393
winder, punch	363
winder, quill (not silk)	367
winder, quill (silk)	371
winder, ramie	367
winder, reel	367
winder, ribbon	558
winder, ring	367
winder, ring bobbin	367
winder, rod (wire works)	279
winder, rope yarn	367
winder, rotor	303
winder, rubber	367
winder, saley (wool)	367
winder (silk)	371
winder, silk (electric cables)	319
winder, silk (lace)	371
winder, single (cotton thread)	367
winder, skein (not silk)	367
winder, skein (silk)	371
winder, slip (elastic web, lace, &c.)	367
winder, slip (silk)	371
winder, soft silk	371
winder, solenoid	303
winder, spinnet grip	608
winder, spiral	559
winder, spool (electrical)	303
winder, spool (textile)	367
winder (spun silk doubling)	371
winder, stator	303

	Code Number.
winder, tape (insulating tape)	364
winder, thread	367
winder, threadle	367
winder, transformer	367
winder, tube (electrical)	303
winder, tube (paper)	367
winder, tube (textile, not silk)	367
winder, tumbler	367
winder, turbo	303
winder, turbo-alternator	303
winder, twine	367
winder, twist (cotton)	367
winder (typewriter ribbons)	558
winder, Universal	367
winder, warp	367
winder, weft	367
winder, weight	367
winder, wet	371
winder, white weft	367
winder, wire	319
winder, wire mattress	268
winder, wire mattress selvedge	268
winder (wire works)	279
winder, wool	367
winder, wool	367
winder, worsted	367
winder, Yankes	367
winder, yarn (printing)	367
winder, yarn (cables)	319
winder, yarn (not silk)	367
winder, yarn (silk)	371
winder-down (spinning frames)	399
winder-down (yarn)	367
windman	518
winder-on	367
winder-on (finishing)	399
winder-on (lapping machine)	369
winder-on (wool finishing)	364
winder-out	350
winders' overlooker	355
winders' overlooker, bobbin	355
winders' overlooker, bottle	355
winders' overlooker, cog	355
winder-up (glass)	139
winder-up (paper staining)	549
winding brakeman	560
winding engine attendant	560
winding engine driver	560
winding engine man	560
winding inspector	567
winding machine minder	367
winding maker	355
winding overlooker	355
windlass man	054
window blind fixer	648
window cleaner	923
window display man	769
window dresser	769
windows frame driller (metal casements)	200
window glass cutter	569
window glass cutter (glass works)	138
window maker, chnreb	138
window maker, lead	569
window pin driller	200
window pin turner	200
window sash maker	474
window ticket maker	548
window ticket writer	548
windroad inspector	041
windway man	044
wine blender and tester	455
wine blender (medicated wines)	455
wine butler	900
wine cooper	455
wine mixer	455
wine porter	745
wine steward	900
wine waiter	916
wing coverer (aeroplane, &c.)	658
wing coverer (aeroplane, stitching)	419
wing erector (aeroplane)	474
wing maker	264
wing man	744
wing not coal	744
winkle gatherer	080
winkle picker	080
winner	042
winnower, cocoa bean	448
winnower, mustard	448
winnowing machine minder (cocoa)	448
wiper, bobbin	399

	Code Number.
wiper, box	279
wiper (cutlery)	279
wiper (glass)	139
wiper, mould (phonograph records)	649
wiper (saw)	279
wiper, actuators	942
wiper (template)	279
wiper, whetters	279
wiper-off	279
wiper-out	138
wire armanring machine	318
wire bender (aeroplane)	279
wire bender (textile machinery)	278
wire bender (rubbers)	279
wire blind writer	594
wire blocker	268
wire blocker, bat	428
wire blocker, millinery	262
wire bender	262
wire brusher	265
wire brush maker	633
wire cable maker	265
wire card maker	279
wire clip maker	279
wire coverer (cables)	319
wire coverer (gutta percha)	319
wire coverer, gutta percha	319
wire coverer, bat	429
wire coverer (India rubber)	319
wire coverer, India rubber	319
wire cutter (needles)	279
wire drawer	268
wire drawer, automatic	268
wire drawer, brass	268
wire drawer, bronze	268
wire drawer, card	268
wire drawer, copper	268
wire drawer, electrical	268
wire drawer, fine	268
wire drawer, gold and/or silver	291
wire drawer, music	268
wire drawer, pinion	268
wire drawer, reed (textile machinery)	268
wire drawer, stem (electric bulbs)	268
wire drawer, tinplate (wireless valves)	268
wire dresser, card	238
wire dresser, gold and/or silver	290
wire examiner	308
wire fastener	318
wire filler	290
wire finisher	268
wire fastener	318
wire former	318
wire frame maker	278
wire galvaniser	234
wire gauge maker	269
wire girer-out	279
wire band (cables)	319
wire jointer (brass)	311
wire jointer, gun	276
wire pointer (welded)	318
wireless apparatus installer	308
wireless apparatus maker	308
wireless engineer	305-7
wireless engineer, chief (aero-drome)	300
wireless operator	754
wireless telegraphist	754
wireless telegraph operator (Post Office)	754
wireless watcher	754
wire maker	268
wire maker, barb	268
wire maker, eye	268
wireman (cycles)	278
wireman, electrical	311
wireman (electrical, telephone, telegraph)	311
wireman, indoor	311
wireman (re-inforced concrete)	279
wireman, telegraph	311
wireman, telephone	311
wireman (telephone exchange)	311
wireman, telephone switch-board	311
wireman and truer-up	318
wireman's assistant	319
wireman's laborer	319
wireman's mate	319
wire mattress frame maker	474

	Code Number.		Code Number.		Code Number.
wool locker-corer	360	wraper (rubber tyres)	689	yard foreman (omnibus)	716
wool maker-up	365	wraper, starch	448	yard foreman, passenger	764
wool merchant	770	wraper, tube	699	yard foreman (railway)	764
wool mixer	362	wraper (warehouses)	949	yard foreman (saw mill)	471
wool neutraliser	364	wraper and-boxer (umbrellas)	948	yard inspector, goods	700
wool oiler	369	wraper (bookbinding)	332	yard inspector (railway)	700
wool opener (felt manufac- ture)	362	wraper man	449	yard inspector (tramways, omnibus)	714
wool packer	389	wraper mender	419	yard labourer	970
wool porter	399	wraper-up	949	yard labourer, boiler	970
wool puller	338	wraper-up (cutlery)	949	yard labourer (cement, patent fuel, etc., works)	279
wool runner	389	wraper-up (jewellery)	949	yard labourer (coco works)	689
wool sampler	788	wraper-up, scythe	279	yard labourer (colliery)	648
wool scourer (cloth)	364	wraper-up, sickle	279	yard labourer (farm)	622
wool scourer (raw material)	361	wraper writer	788	yard labourer (foundry)	183
wool shrinker	361	wrath maker, artificial	688	yard labourer (metal mine)	656
wool sorter	360	wrath maker (artificial flowers)	688	yard labourer (wood)	489
wool sorter, foreman	352	wrench	278	yard maker	489
wool sorter's apprentice	360	wrencher	278	yard man (builder's)	564
wool stapler	360	wrench finisher	278	yardman (farm)	622
wool stapler (dealer)	770	wrench forger	190	yardman, hotel	622
wool steamer	389	wreath, professional	989	yardman, iron (saw)	276
wool stock keeper	940	wringer attendant	916	yardman (leather)	338
wool store man	389	wringer (gun cotton)	146	yardman (livestock stable)	338
wool stripper	364	wringer-out	429	yardman, metal	729
wool stripper (combining)	364	wringman	389	yardman (metal or engineer- ing works)	279
wool take-off (combining)	365	writer, assistant (ship)	737	yardman (railway)	700
wool take-off (sorting)	389	writer, Beall's	556	yard man, timber	700
wool trapper	362	writer, card (factory or works)	939	yard master	700
wool tuft cutter (carpets)	338	writer, dial	339	yard master, assistant	700
wool warehouseman	940	writer, fascia	504	yard porter	706
wool washer (leather)	338	writer, glass	584	yard regular	704
wool washer (textile)	361	writer, law	339	yard scavenger	704
wool wash-house man	361	writer, letter	594	yard signaller (railway)	704
wool weigher	389	writer, lithographic	529	yardman	700
wool weigher-in	389	writer, ornamental	529	yardman (blast furnace)	279
wool weigher-out	389	writer, poster	584	yardman, chief	700
wool weighman	389	writer, poster (signwriter)	584	yardman (farm)	622
wool winder	367	writer (ship)	787	yardman, porter	704
wool basket fitter	688	writer, shorthand	389	yardman (railway)	704
wool basket liner	688	writer, show card	543	yard sweeper	970
wool board hand (cutlery)	276	writer, sign	584	yard baller, coat	367
wool box fitter	688	writer (signwriter)	584	yard baller (cotton)	367
wool box liner	688	writer, ticket	546	yard baller, warp	367
wool box maker	473	writer, tin ticket	546	yard baller (woollen)	367
worker (glass)	134	writer, title	546	yard baller, woollen	367
worker-off	435	writer, window ticket	546	yard bleacher	389
worker-round	279	writer, wire blind	594	yard boiler	384
workhouse attendant (female inmates)	929	writer, wrapper	789	yard boy	389
working attendant, resident	919	writer to the trade	594	yard butcher (textile mill)	943
working foreman (contractor's)	561	writing desk maker	473	yard butcher (wool warehouse)	943
working foreman (railway)	796	writing fluid grinder	153	yard bundler	943
working foreman (kitchen)	681	writing fluid maker	158	yard carter	399
working housekeeper	900	writing pad maker	556	yard conditioner	399
working jeweller	298	writing plate finisher	576	yard counter (examiner)	379
working optician	133	writing plate maker	576	yard counter (for maker-up)	399
workman (glass)	124	writing plate polisher	576	yard dumper	399
workman's examiner	641	wrought nail maker (forged)	190	yard drawer	399
workman's inspector	641	wrought nail maker (hand)	278	yard dresser	399
works agent	670	wrought nail pointer	278	yard dryer (flax and hemp)	398
works and ways department labourer	561	wrought nail shanker	278	yard dryer (knapping)	398
works clerk	638	wuzzor	398	yard dryer (printing)	398
works engineer (electricity)	650			yard dyer	381
workshop foreman (optical glass)	121			yard dye, cord	359
works keeper (water works)	638			yard examiner	379
works lighting engineer (elec- tricity supply)	691			yard finisher (bleaching)	390
works superintendent (elec- tricity)	890			yard finisher (bank)	399
works superintendent (tram- ways)	714			yard lad	399
work wheeler	279			yard lad, reeling room	399
worm boy (patent fuel)	699			yard layer-out	399
worm cutter	290			yard leader (rope and twine)	289
wormed shaker	279			yard loft man	396
wormer	209			yard locker	379
wormer's runner	279			yard maker-up	943
worming fitter (screws)	211			yard man	399
wormed filler (carpets)	367			yard packer, foreman	943
wormed funder (carpets)	389			yard picker	379
wormed winder	367			yard piler (carpets, etc.)	943
woven hanger maker	576			yard piler (textile warehouse)	943
woven wire spring mattress maker	269			yard polisher	398
wraper (black lead)	949			yard polisher, hank	398
wraper, block	688			yard polisher (mosquito netting)	396
wraper, cane	949			yard polisher, warp	396
wraper (cardboard boxes)	559			yard preparer	398
wraper, chocolate	949			yard printer, carpet	383
wraper, cop	949			yard printer, cotton	383
wraper (matches)	949			yard reder (rope, twine)	367
				yard remover	399
				yard setter (knapping)	399
				yard shaker and header	399
				yard sizer	389
				yard softener	398

	Code Number.		Code Number.		Code Number.
yarn sorter (examining) ...	379	yarn washer (carpets) ...	386	zinc fixer ...	278
yarn sorter (grading) ...	388	yarn washer, silk ...	393	zinc goods maker ...	264
yarn spinner ...	385	yarn weigher (for winder) ...	399	zincing man (copper) ...	149
yarn spinner, rope ...	385	yarn weigher-out ...	395	zinc labourer ...	279
yarn splicer, coir ...	396	yarn winder (sables) ...	319	zinc nail machine feeder ...	279
yarn splicer (silk) ...	398	yarn winder, coir ...	367	zinc nail machine minder ...	254
yarn splitter ...	367	yarn winder (not silk) ...	367	zinc etcher ...	526
yarn splitter, warp ...	384	yarn winder, rope ...	367	zincographic machine minder ...	529
yarn splitter, warp (dyeing) ...	367	yarn winder (silk) ...	371	zincographic printer ...	529
yarn spooler (rope and twine) ...	393	Yaryan man (paper) ...	143	zinc picker ...	279
yarn spreader ...	399	yeast horse man ...	455	zinc plate worker ...	264
yarn stocker ...	399	yeast man ...	455	zinc pot maker ...	193
yarn stockkeeper ...	441	yeast presser ...	458	zinc printer ...	529
yarn storer (bristone) ...	398	roll cleaner ...	399	zinc recovery hand ...	279
yarn storer (cotton yarn) ...	398	zeoman ...	011	zinc rod drawer ...	268
yarn storer, warp ...	398	Yorkshire dresser ...	369	zinc roller ...	178
yarn stretcher (gossipping) ...	398	youaker ...	080	zinc roofer ...	226
yarn stretcher (silk) ...	398			zinc sampler ...	278
yarn stripper ...	399			zinc sash bar stamper ...	254
yarn taken-away ...	399			zinc sheder ...	264
yarn tester ...	398			zinc tube drawer ...	269
yarn twister (cotton) ...	366			zinc white maker ...	152
yarn warper ...	367			zinc worker ...	264
yarn warper, coir ...	367			zoological gardens keeper ...	969

Z

zincage man ...	276
zinc corrugator ...	278
zinc cutter ...	264

APPENDIX.

List of terms the code numbers of which it is proposed to change for the 1931 Census. These terms have been indicated in the Dictionary thus: †

Occupational Term.	Present Code Number.	Proposed Code Number.	Occupational Term.	Present Code Number.	Proposed Code Number.
Accumulator sawyer ...	319	279	Bottom leveller ...	498	486
Action filer (patent) ...	649	238	Box iron filer and finisher	210	278
Ageing machine minder ...	398	384	Brace-maker ...	419	410
Age tender ...	398	384	Brake attendant (tramways) ...	714	729
Age man ...	398	384	Brake examiner (tramways) ...	714	729
Age ...	398	384	Brake inspector (tramways) ...	714	729
Age minder ...	398	384	Brakesman (coal drops) ...	714	729
Allocation clerk ...	929	938	Brass instrument maker ...	648	278
Allowance man (brewery) ...	459	929	Brass musical instrument maker	648	278
Alternator attendant ...	459	954	Breaker-off (brass foundry) ...	279	185
Alum kieve man ...	148	145	Breaker-up (brass foundry) ...	279	185
Alum maker ...	148	145	Breast washer ...	279	089
Angle cuttersman ...	518	538	Breast wheeler ...	699	670
Amline ager ...	398	384	Brumstone stove man ...	398	384
Are lamp assistant ...	698	989	Brush case maker ...	473	688
Are lamp cleaner ...	698	989	Brush-cut ...	459	970
Are lamp trimmer ...	698	989	Brush varnisher ...	689	689
Ari metal fitter's mate ...	231	279	Bolt worker (lumps) ...	318	138
Ash boy ...	709	970	Bong maker ...	499	488
Ash filter ...	709	970	Burner (pig iron) ...	278	171
Ash lad ...	709	970	Burner (tin ore) ...	056	171
Ash loader ...	709	970	Burner fitter (gas works) ...	698	285
Ash man ...	709	970	Burner-in ...	518	188
Ash pit labourer ...	709	970	Button cleaner ...	689	619
Ash pit man ...	709	970	Button dipper ...	689	619
Ash wheeler (chemical works) ...	145	970	Cabin boy ...	066	929
Ash wheeler (gas, electricity, waterworks) ...	699	970	Cable welder ...	311	248
Axis box finisher ...	278	188	Can dodger ...	363	399
Axis bush finisher ...	278	188	Can heater-out ...	363	399
Baby car hood maker ...	658	419	Canteen man (brewery) ...	459	929
Backer ...	398	384	Cannery slicer ...	419	418
Backer-up (gramophone records) ...	648	262	Cap solderer (electric lamps) ...	318	262
Back filter ...	398	384	Cap solderer ...	709	706
Back filling mangle ...	398	384	Card enter ...	519	528
Back fill mangle ...	398	384	Card examiner (tramways) ...	714	729
Back starcher ...	398	384	Card inspector (tramways) ...	714	729
Back starch filler ...	398	384	Cardman ...	279	729
Bag stitcher ...	419	429	Carriage attendant ...	702	929
Bag tank man (sugar) ...	449	970	Carriage fitter (railway) ...	475-6	210
Bag washer (sugar refining) ...	449	970	Carriage manager ...	700	706
Bander (textile finishing) ...	399	419	Carriers' runner ...	719	729
Band sewer-ra. (wool spinning) ...	398	419	Cash maker (brush, jewel, pipe, &c.) ...	473	688
Banker hand ...	072	575	Cash brusher-out ...	459	970
Bank rider (coal drops) ...	744	704	Cash drainer ...	459	970
Bank rider (railway) ...	577	709	Cash filter ...	459	970
Bar inspector (tramways) ...	714	729	Cash steamer ...	459	970
Bar chopper ...	499	639	Cash washer ...	459	970
Bar cleaner ...	499	639	Caster ...	414	989
Bar cutter ...	499	639	Catgut maker ...	688	638
Bar grinder ...	499	639	Catgut spinner ...	688	638
Bar picker ...	499	639	Cattle foreman ...	700	706
Bar scraper ...	499	639	Chain examiner ...	731	278
Bar shaver (l) ...	499	639	Chain repairer (harness) ...	378	190
Bar sewer ...	499	639	Chalk wheeler ...	089	970
Bar stripper ...	499	639	Change house keeper ...	056	929
Bar workar ...	499	639	Change house man ...	056	929
Barrel washer (brewery) ...	459	970	Changing house keeper ...	056	929
Barrel washer (paints and oils) ...	159	970	Changing house man ...	056	929
Bassinet hood maker ...	658	419	Checker (jib) ...	278	942
Bath fitter ...	278	252	Chemical apparatus maker ...	322	138
Batton maker ...	486	481	Chief hoisting tester ...	729	720
Bayman (steel works) ...	279	970	Cinder sifter ...	709	970
Bayonet grip maker ...	498	486	Clammer (dies, seals, &c.) ...	278	254
Bead and bagle stringer ...	639	638	Clark (wood winding) ...	398	399
Belt tenter ...	047	545	Clay wheeler ...	099	970
Bender ...	222	190	Cleatler ...	220	279
Binder (sheep hook) ...	532	558	Clinical thermometer blower ...	822	124
Blanker (gold tub) ...	298	296	Clinical thermometer divider ...	822	126
Blanket edger ...	384	419	Clock assembler (meters) ...	309	323
Bleacher (explosives) ...	143	380	Clock hand (electric meters) ...	309	323
Bleacher (foreman) ...	380	359	Clock maker (electric meters) ...	309	323
Bleach chopper (il) ...	072	575	Clock man (electric meters) ...	309	323
Blecker (silk finishing) ...	398	384	Cloth enter (electric cables) ...	584	819
Block scabbler ...	072	575	Cloth carriage attendant ...	702	929
Block soapier ...	072	575	Cloth saloon attendant ...	702	929
Block scraper ...	072	575	Coach body monitor ...	475-6	654
Blout worker ...	082	278	Coach fitter (railway) ...	475-6	210
Body fitter ...	475-6	658	Coach monitor ...	475-6	654
Body monitor ...	475-6	658	Coal handler ...	699	970
Body minder ...	043	044	Coal labourer ...	709	706
Boorman ...	043	044	Coal labourer (electricity supply) ...	699	970
Boom inspector (tramways) ...	714	729	Coal tender (minerals) ...	744	704
Boer ...	279	200	Coal wheeler (chemical works) ...	149	970

Occupational Term.	Present Code Number.	Proposed Code Number.	Occupational Term.	Present Code Number.	Proposed Code Number.
Coal wheeler (gas, electricity) ...	699	970	Fret sawyer ...	481	498
Coal wheeler (petrol fuel, etc.) ...	699	970	Gang boy ...	581	929
Coke wheeler ...	699	970	Ganger (tramways) ...	716	561
Compo press man ...	567	688	Gas lighter (gas works) ...	639	989
Compo press worker ...	567	688	General labourer ...	279	970
Confidential agent ...	771	799	Gilder (house decorations) ...	692	485
Contact maker ...	318	279	Gilder (vehicles) ...	535	485
Copper brazer and plate worker ...	262	264	Gimping machinist ...	945	534
Cork collar ...	638	639	Gland packer ...	709	279
Cork drawer-off ...	499	639	Glede washer ...	479	989
Cork stripper ...	499	639	Glede dryer ...	159	158
Cotton preparer (artificial silk) ...	149	362	Glede layer-out ...	159	158
Cotton spool packer ...	369	349	Gold duster (printer's) ...	637	648
Coupler ...	073	489	Gold silk roller ...	298	298
Count house boy ...	056	753	Gold silk stumper ...	298	298
Count house cut ...	056	753	Grain fencer ...	700	706
Count house keeper ...	056	922	Gramophone assembler ...	648	279
Count house maiden ...	056	922	Gramophone fitter ...	648	279
Count house woman ...	056	922	Gramophone matrix fitter ...	648	279
Covered string maker ...	698	279	Grass boiler ...	279	159
Coverer (aeroplane) ...	504	658	Grass extractor (wooden mill) ...	598	384
Coverer (aerost. skeels) ...	406	429	Grass man (wool) ...	599	158
Cresler ...	365	399	Grass workman ...	599	158
Curtain knitter ...	376	419	Grid maker ...	498	474
Cutleryman (wall-paper) ...	548	658	Grinder (china clay or sand) ...	074	099
Cutter (sawed) ...	449	485	Gripe mender ...	049	190
Dash grinder ...	089	099	Grip maker ...	498	486
Diamond mill cleaner ...	638	273	Gripper (dog sleds) ...	498	486
Digger ...	414	429	Groomster ...	149	949
Dimension quarryman ...	072	676	Gullotine cutter (paper mill) ...	518	558
Deck sampler ...	740	789	Gullotine cutter (printer's) ...	548	558
Drainer (brewery) ...	469	970	Gullotine hand (wall paper) ...	548	558
Dresser (builder's) ...	654	581	Gullotine man (paper mill) ...	518	558
Drawer and marker ...	298	286	Gut drawer ...	688	628
Drawer (jute) ...	358	368	Gut finisher ...	688	628
Dresser ...	073	578	Gut maker ...	688	628
Drawer ...	034	096	Gut spinner ...	688	628
Drum cleaner ...	159	970	Gut string maker ...	688	628
Drum finisher ...	398	384	Gymbler ...	398	224
Drum washer (glycerine) ...	149	970	Hall marker ...	298	286
Dry Boy ...	056	929	Hall mark stamper ...	298	286
Dryer (canvas dressing) ...	418	429	Hardener's assistant (saws) ...	220	279
Dryer (cycles) ...	241	279	Hard mopper ...	688	499
Dry house attendant ...	056	929	Hat leather binder ...	419	410
Dry house boy ...	056	929	Head stageman ...	741	740
Dry house man ...	056	929	Heaver-over ...	178	279
Dry man ...	056	929	Hoist man ...	399	757
Dry mangler ...	398	384	Hoist tender ...	399	757
Duster ...	538	548	Holer (wood wind instruments) ...	486	486
Duster-off ...	538	548	Hollower (dog sleds) ...	498	486
Dyer and cleaner ...	929	581	Homster ...	119	104
Dyer (job) ...	929	581	Hood coverer (perambulators) ...	658	419
Enamel maker ...	108	158	Hooker-on ...	979	979
Engine plane man ...	043	044	Hose sticher ...	609	418
Engine tuber (loose) ...	210	222	Hosery stover ...	398	384
Engraver's painter (tertile printing) ...	399	278	Hot water filter (S) ...	240	251
Excavator (slate, stone, &c.) ...	071	561	Hydraulic press attendant ...	519	949
Excavator (builder's) ...	664	581	Hydraulic press hand ...	519	949
Eyeblet machinist ...	549	559	Hydraulic press man ...	519	949
Fancy finisher ...	638	498	Hydrophosphate agr. ...	398	384
Fencing maker ...	474	499	Incubator maker ...	498	474
Fibrous solderer ...	318	138	Index cutter ...	648	558
Filler ...	478	499	Indigo ager ...	398	384
Filler-in ...	478	499	Ingot borer ...	279	290
Filling mangler ...	398	384	Ink bottle washer ...	159	949
Filter cloth washer ...	449	970	Ink can washer ...	159	970
Finisher (aeroplane) ...	504	659	Inspector (stone, slate) ...	071	581
Finisher (block works) ...	398	384	Iron bender ...	278	190
Finisher (brooma and brushes) ...	638	498	Iron plate worker ...	264	222
Finisher (cabbage pipes, not clay) ...	688	638	Irrigator ...	034	096
Finisher (whip) ...	348	688	Jewel and plate case maker ...	473	688
Fire pot boy ...	581	929	Jewel case maker ...	473	688
Firing tube drawer ...	266	254	Jigger ...	414	429
First mopper ...	688	499	Jigger turner ...	106	119
Fish keeper ...	989	910	Jigsaw puzzle maker ...	688	498
Fitter-up (brass wind instruments) ...	648	278	Jig sawyer ...	481	498
Flax reter ...	382	398	Journeyman ...	073	576
Floater ...	024	096	Jumbler ...	328	224
Flowerer ...	414	407	Kiln firer ...	122	138
Flue cleaner ...	049	989	Knapper ...	072	575
Fluoman ...	049	989	Label cutter ...	548	558
Foreman blancher ...	380	359	Labourer (Post Office Stores) ...	759	970
Foreman checker ...	700	706	Labourer (watch, clock works) ...	329	970
Foreman paper ...	700	706	Ladies' waiting room attendant ...	709	929
Foreman searcher ...	700	706	Lag and peg maker ...	499	486
Founder's black maker ...	659	099	Lamp fitter ...	499	486
Frame bender ...	232	190	Lamp man ...	318	305-7
Frame turner (ship) ...	232	190	Lamp trimmer ...	749	989
Fret cutter ...	481	498	Landing stage mate ...	741	740
Fret saw worker ...	481	488	Lap carrier ...	362	399
			Lapper ...	582	399

Occupational Term.	Present Code Number.	Proposed Code Number.	Occupational Term.	Present Code Number.	Proposed Code Number.
Lavatory attendant	706	939	Palm sticher	419	418
Lavatory porter	706	939	Pan washer	150	970
Lay-out	150	158	Paper cutter	548	558
Leading ladies' waiting room attendant	799	929	Paper granner	549	559
Lease lifter (note)	398	368	Paper preparer (artificial silk) ...	149	555
Leatherer	419	410	Parcel delivery porter	706	715
Lighting fitter (gas works) ...	698	235	Paster (patience cards)	398	534
Lime house man (coke ovens) ...	148	149	Pattern card maker (stationery) ...	534	558
Lime runner	999	970	Pattern card maker (textiles) ...	329	534
Lime finisher	398	384	Pattern maker (pottery)	118	105
Linen attendant	706	929	Pattern maker (wood scales) ...	498	480
Linen room attendant	706	929	Peg maker (hools)	499	480
Liner (hats)	428	410	Perambulator hood and apron maker ...	658	419
Liner in (hats)	428	410	Perambulator hood maker	658	419
Lint boy	398	419	Plan string maker	588	278
Loader (curtains, ware, frock, etc.)	119	709	Picker (stone dressing)	575	589
Loader (floor construction) ...	449	729	Picker (stone mine or quarry) ...	072	099
Loader (grain milling)	449	729	Pick shaft glaser	498	499
Machine blacker	379	099	Piece launder (textile finishing) ...	399	419
Machine cutter (bookbinder's) ...	535	558	Piece raiser (carpets)	398	384
Machine cutter (printer's) ...	538	558	Pleaser	318	188
Machine cutter-out	532	558	Pig hanger-on	279	989
Machinist (tin steama)	065	210	Pig nose maker	473	688
Mail cart hood maker	658	419	Pipe fitter's mate	351	279
Main layer foreman (gas works) ...	692	561	Pitch wheeler	099	970
Main pipe foreman	692	561	Pit cleaner	708	970
Maker and fitter (brass wind instruments) ...	648	278	Plan keeper	700	706
Marker (brass wind instruments) ...	648	278	Plate bender	322	190
Marker (needles, fish hooks, etc.)	279	254	Plate guillotine (accumulators) ...	319	279
Marker (scales)	279	278	Plater	264	222
Marker (slate)	073	589	Plate sawyer (accumulators) ...	319	279
Mate of landing stage	741	740	Plate trimmer (accumulators) ...	319	279
Matrix fitter (gramophone) ...	648	278	Playing card cutter	548	558
Meat foreman	700	706	Plough examiner (tramways) ...	714	729
Mechanic (gramophones)	648	278	Plough inspector (tramways) ...	714	729
Meerschbaum canneller (tobacco pipes) ...	688	638	Plough (stone gates)	279	269
Meerschbaum pipe maker	688	638	Plumber	047	160
Messenger (colliery)	043	758	Polisher (brushes)	498	474
Metallic fringe maker	407	398	Polisher (silver-in)	639	499
Mica cutter	304	098	Polisher's filler-in	478	499
Mica chiller	304	098	Polishing boy	478	499
Micronite builder	304	098	Porter's room attendant	706	729
Micronite cutter	304	098	Postcard maker	548	558
Micronite maker	618	098	Preparer (i) (artificial silk) ...	149	362
Micronite moulder	304	098	Preparer (ii) (artificial silk) ...	149	559
Micronite tube maker	304	098	Preparer (jewellery)	298	294
Micronite tube worker	304	098	Press cloth washer (sugar refining) ...	449	970
Micronite washer maker	618	098	Press packer	519	949
Micronite worker	618	098	Press paté machine man	512	518
Micronite worker (electrical insulation) ...	304	098	Press paté man	512	518
Mica pasteur	304	098	Printer's cutter	548	558
Mica pressman	304	098	Printer's granner	549	559
Mica worker	304	098	Printers' mixer	108	118
Mill top man (i)	119	104	Printing mixer	108	118
Mine girl (i)	066	922	Prussian blue maker	348	148
Mopier (tobacco pipes, not clay) ...	688	499	Pug mill attendant	099	099
Motor assembler (gramophone) ...	648	278	Pug mill man	089	099
Motor examiner (tramways) ...	714	729	Pump attendant	074	950
Motor inspector (tramways) ...	714	729	Pump boy	074	950
Motor wagon loader	706	729	Pumper (colliery)	047	950
Moulder's black maker	639	099	Pumper (quarry)	074	950
Moulder (linen)	949	534	Pumper (quarry)	047	950
Moulder (vehicle building)	475-6	658	Pump man (stone mine or quarry) ...	073	950
Moulder (vehicle fitting)	210	568	Pump minder	047	950
Musical string maker (guit) ...	688	638	Punch inspector	714	729
Musical string maker (wire) ...	278	278	Punch shop superintendent ...	714	729
Nail set room man	399	399	Purser on pier	741	749
Nail packer	399	349	Putter-on	159	158
Notcher (scales)	279	278	Racker (Rithogger's)	548	549
Not coal wheeler	099	970	Radiant string maker	658	638
Obsemer (lamps) (il)	319	126	Radiator man (motor car) ...	278	264
Oil cellerman	159	941	Radiant miner	056	054
Oil extractor	279	159	Rag picker	599	964
Oil filler	159	949	Rena (rhena, rhine, rina) labourer ...	089	086
Oil packer	159	949	Re-live use man (omni-bus) ...	729	729
Oil pad examiner (railway) ...	278	709	Reiter	362	398
Oil pan washer	159	970	Ribbon winder	558	559
Oil refinery floor man	159	970	Rib cutter	428	402
Omace	319	304	Road and yard cleaner	709	970
Operative (Royal Mint)	279	254	Roadman (patent fuel)	099	577
Overlocker	374	419	Roller-over (brass)	329	278
Overlocking machinist	376	419	Roller man	043	044
Oxidiser (linoleum making) ...	658	158	Rollway man	043	044
Packer (cheese)	149	949	Rolling mill spare hand	178	279
Paint filler	159	949	Rollway man	043	044
Paint packer	159	949	Ropeman	706	398
Painter (corsets)	408	429	Roper	706	398
Palm and needle hand	419	418	Rope runner (colliery wharf) ...	744	706

Occupational Term.	Present Code Number.	Proposed Code Number.	Occupational Term.	Present Code Number.	Proposed Code Number.
Rope splicer	706	906	Stove finisher	396	384
Rougher (dog soles)	498	468	Stove hand	418	429
Rounder (dog soles)	498	486	Stoverman (cotton cloth)	398	384
Rounder (pencils, etc.)	499	486	Stover (brimstone)	398	384
Rounding machine attendant	499	486	Stover (cotton cloth)	398	384
Rubish canister (steel works)	279	970	Stricking drum finisher	398	984
Rumfere boy	043	758	Striking board man	279	163
Runner	090	970	String coverer (piano)	688	278
Running foreman	700	706	Stringer	419	418
Sailor gang labourer	279	989	String maker (gut)	688	638
Sailor labourer	279	989	String maker (wire)	688	278
Sailorman	279	989	Sulphate of ammonia packer	142	942
Salcon attendant	702	929	Sulphur stover	598	384
Sampler	740	789	Surgeal gut maker	688	638
Scabbler	072	575	Surgeal gut worker	688	638
Scapler	072	575	Surgeal string maker	449	495
Scappler	072	575	Sweet cutter	459	970
Schyt (shirts) cleaner or polisher	638	278	Syphon cleaner	338	354
Scrabbler	072	575	Table hand	938	354
Scraper	072	575	Table man	498	486
Scrapplet	072	575	Tally maker	419	407
Shirts wrapper-up	279	949	Tank cleaner (floor cloth)	639	970
Shoer (nags)	318	138	Tank excavator (copper extrac- tion)	279	149
Shoer-in (humps)	318	138	Taper	398	419
Shoer-off	318	138	Taperer	499	486
Shoer-on	318	138	Tapering machine attendant	499	486
Second mopper	688	499	Tape sewer	398	419
Seed room assistant	989	942	Tape sewer-on	398	419
Setter-in (cutlery)	278	228	Tare man (wood)	399	949
Setter-up (i)	318	138	Tearer assistant	159	359
Setter-up (ii)	318	211	Tearer attendant	159	362
Sewer-down (textile finishing)	399	419	Telephone lad	706	756
Sewer-in (textile finishing)	399	419	Telephone man	220	279
Sewer (textile finishing)	399	419	Thermometer assistant	688	638
Shaker (dog soles)	458	486	Thermometer divider	922	126
Shoe cutter	548	558	Thermometer figurer	922	126
Shoeing attendant	518	558	Thermometer graduate	922	126
Shooter (card and pasteboard)	518	558	Thermometer pointer	922	126
Shoetors' foreman	700	706	Thermometer tube blower	922	124
Sheet iron stretcher (textile machinery)	264	222	Ticket maker (i)	548	558
Sheet iron worker	264	222	Timber loader	499	729
Ship boy	072	745	Tobacco beater-up	469	949
Ship frame bender	222	190	Tobacco feeder-up	469	949
Ship frame setter	222	190	Tobacco machine packer	469	949
Ship frame turner	222	190	Tobacco machine weigher	469	949
Ship man	072	745	Tram attendant	702	929
Shipper	072	745	Tramwayman	043	044
Ship sweeper (shipyard)	279	970	Trimmer (aerophanes)	504	659
Shive maker	499	486	Trimmer (bookbinder's)	532	538
Shive turner	499	486	Trimmer (card and pasteboard) (i)	518	538
Shoulder (penholders)	499	486	Trimmer (skate)	673	676
Show card maker	548	558	Trolley attendant (tramways)	714	729
Show card mounter	548	558	Trolley examiner (tramways)	714	729
Shuttle block cutter	498	492	Trolleyman (gas works)	699	970
Sick wrapper-up	279	942	Truncator	729	725
Side cutter	498	486	Tube fitter	210	278
Single whister	519	558	Tube fitter (loose)	210	278
Size dryer	159	158	Tubulator	318	138
Sizer and roller (wipes)	349	689	Twine finisher	398	384
Sizer (twine and cord) (i)	398	984	Twine polisher (ii)	398	384
Sketch hand	210	278	Twinner	419	429
Skipper (twine)	733	000	Unloader	119	709
Slag contractor	279	278	Van setter	709	729
Slash mill cleaner	076	589	Varnisher (brushes)	639	629
Sleeping car attendant	702	929	Varnish filler	159	949
Soda man	143	149	Varnish packer	159	949
Sorter (card and pasteboard)	519	954	Varnish peeler-up	499	486
Soundboard hand	648	498	Wagon filler	119	709
Soundboard maker	648	498	Wagon loader	119	709
Special pump attendant	054	959	Wagon man (coal mine)	043	044
Spint maker (i)	683	498	Wagon man (stables)	744	704
Spint maker (ii)	683	278	Wagon rider	744	704
Spout girl (matchbox)	149	949	Wagon road man	043	044
Squaw	072	575	Wagon way man	043	044
Stage whipper	043	044	Warehouse keeper	781	940
Stamper (Assay Office)	288	288	Warp loom knitter	970	374
Stamper (lamps)	318	125	Washer (barrel)	159	970
Starcher (textile printing)	398	384	Washer's attendant (sugar refining)	449	970
Starcher (twine)	398	384	Wash house man (sugar refining)	399	949
Station cleaner	706	729	Waste paper sorter	519	984
Steam and hot water fitter (i)	240	251	Waste sorter	519	984
Steam crane boy	279	950	Water bailiff	518	989
Steamer (flushing)	398	384	Waterer (alkali)	399	384
Steam fitter (i)	240	251	Waterman (stables)	741	749
Steamer	918	138	Water softener	519	989
Steicher and stringer	419	418			
Steicher-on (textile finishing)	399	419			
Steicher (textile finishing)	399	419			
Stock foreman	706	706			
Stone polisher	575	589			
Store man (distillery)	941	461			

Occupational Term.	Present Code Number.	Proposed Code Number.
Water softening plant attendant	699	989
Wet man (i)	399	398
Wet room man	390	398
Welder	311	249
Wharf men (cement)	099	745
Whisker (chemical works)	149	970
Wheeler (patent foot)	099	970
Wheeler-off	149	658
Wheel maker (railway coach)	475-6	970
White ash wheeler	149	970
White mangle	398	384
White piece sizer	398	384
Whiting filler	099	949
Whiting packer	099	949
Whitener	590	359
Wicker	158	159
Winder (typewriter ribbons)	558	559
Window ticket maker	548	558
Wire mouster	311	318

Occupational Term.	Present Code Number.	Proposed Code Number.
Wire patenter	398	220
Wires	311	318
Wire spher	658	278
Wire welder	268	349
Wooden screw maker	499	498
Wood fibre maker	498	499
Wood grid maker	498	474
Wood label maker	498	486
Wood leader	499	729
Wood packing maker	498	499
Wood puzzle cutter	658	498
Wood scale maker	498	490
Wood wool sorter	498	499
Wood wool maker	498	499
Wooden sulphur stover	398	384
Wrappener	632	558
Yard labourer	145	970
Yarn stover	398	384